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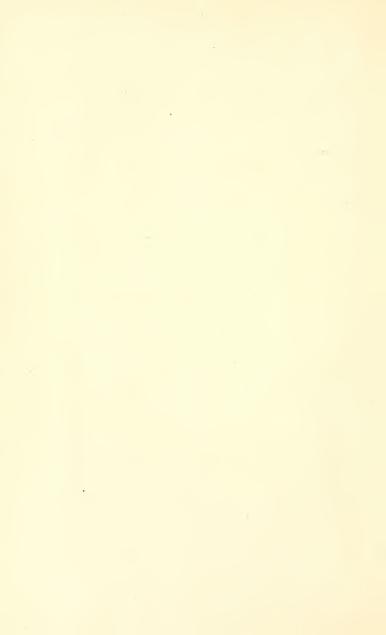
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## THIRTY-SIXTH

## Annual Coal Report

of Illinois

## DEPARTMENT OF MINES AND MINERALS 1917



66371

EVAN D. JOHN, Director

MARTIN BOLT, Assistant Director

Springfield, Illinois

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WILLIAM H. TURNER, Treasurer, Collinsville.

JOSEPH C. VIANO, Coal City.

# INSPECTION DISTRICTS AND STATE INSPECTORS OF MINES FOR THE FISCAL YEAR BEGINNING JULY 1, 1917.

First District—Bureau, Grundy, Henry, LaSalle, Livingston, Mercer, Putnam, Rock Island and Will Counties.

Walter A. Waite, Inspector, Spring Valley.

Second District—McLean, Marshall, Peoria, Stark, Tazewell and Woodford Counties.

WILLIAM E. KIDD, Inspector, Peoria.

Third District—Cass, Fulton, Hancock, Knox, McDonough, Schuyler and Warren Counties.

THOMAS P. BACK, Inspector, Canton.

Fourth District—Logan, Menard, Morgan, Sangamon and Scott Counties.

ROBERT REAVLEY, Inspector, Riverton.

Fifth District—Christian, Macon, Moultrie, Shelby and Vermilion Counties.

Joseph Haskins, Inspector, Catlin.

Sixth District—Green, Jersey, Macoupin and Montgomery Counties.

Thomas A. Lewis, Inspector, Litchfield.

Seventh District—Bond, Madison and Marion Counties.

ROBERT PETTIGREW, Inspector, Troy.

Eighth District—Clinton and St. Clair Counties.

THOMAS C. WRIGHT, Inspector, Belleville.

Ninth District—Jackson, Perry, Randolph and Washington Counties.

JOSEPH THOMPSON, Inspector, Murphysboro.

Tenth District—Franklin County.

Frank Rosbottom, Inspector, Benton.

Eleventh District—Gallatin, Saline and White Counties.

George Bagwell, Inspector, Eldorado.

Twelfth District—Johnson and Williamson Counties.
H. T. Bannister, Inspector, Herrin.

## MINE RESCUE STATIONS DIVISION.

### SUPERINTENDENTS OF RESCUE STATIONS.

LaSalle.

THOMAS ROGERS.

Springfield.

THOMAS ENGLISH.

Benton.

JAMES TOWAL.

Duquoin.

JAMES ROBERTSON.

Herrin.

JAMES WEIR.

Harrisburg.

ALEXANDER SKELTON.



#### LETTER OF TRANSMITTAL.

STATE OF ILLINOIS,
DEPARTMENT OF MINES AND MINERALS.
SPRINGFIELD, January 1, 1918.

Honorable Frank O. Lowden, Governor of Illinois.

Sin: I have the honor to submit herewith the Thirty-sixth Annual Report of the coal industry of the State for the fiscal year ended June 30, 1917, also containing the report of the Mine Rescue Stations for the period extending from January 1, 1915, to July 1, 1917, and the Fourth Annual Report of the Miners' Examining Board.

Respectfully submitted,

EVAN D. JOHN, Director.



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## THIRTY-SIXTH ANNUAL COAL REPORT OF ILLINOIS, YEAR ENDED JUNE 30, 1917.

#### INTRODUCTORY.

The condition of the coal industry for this year shows marked improvement over all preceding years, both in production, market price and earnings of the men engaged in the industry. There was an increase in production of 15,309,997 tons, or more than 24 per cent.

The number of shipping mines in operation were 40 more than last year, some of these, however, were operated last year as local mines. A reduction in the number of local mines will be noticed, but as a great many of this class of mines are such small producers that no appreciable effect was made on the State's output. These small mines, 414 of which, out of a total of 486 engaged in local trade, employed less than ten men each, and are continually changing hands, many of them operating but one season, abandoned and the proprietor moves to a more promising locality.

The number employed the past year in all mines was 80,893, an increase of 4,974. They worked an average of 179 days or 16 days more than last year. The employees in shipping mines numbered 78,056 and these worked on an average 215 days and produced 77,412,054 tons. These mines, if run full time, could produce more than 100,000,000 tons each year.

During the year 207 lives have been lost in and about the mines, 183 of which were in the mines, 19 on the surface and five in the shaft. The number of tons mined to each life lost was 381.563, and the number of employees to each death was 391. These fatalities are given in detail in Table 40.

Sixteen hundred thirty-four, one of every 50 employed, received injuries resulting in a loss of 30 or more days time, of which 597, or

36.6 per cent, were caused by falling roof and sides.

A great many operators are always delinquent in filing their annual reports, especially that relating to accidents, and it is only after much correspondence that the department is able to get them at all, and then, in some instances, they are incomplete and very unsatisfactory. This causes a great deal of unnecessary trouble and expense and makes it very difficult and sometimes impossible for this office to fulfill the requirements of the law relating to the compiling of statistics.

This department urges all operators to file their reports in the future in the time prescribed by the law, so as to obviate the necessity of

taking legal action to procure them.

The Legislature at its last session combined the miners examining board, the mine rescue commission and the State mining board under one administrative office to be known as the Department of Mines and Minerals. The annual reports of these divisions will be found in the supplement to this report.

Attention is called for the purpose of comparison to the following:

#### SUMMARY.

The following is a summary and comparison with 1916 of the principle items contained in this report:

Summary.	1917	1916
Jumber of counties producing coal	51	
Number of mines and openings of all kinds	810	8
Number of fifthes and openings of an kinds  Lew mines or old mines re-opened during the year	157	1:
lines closed or abandoned since last report.	150	1
otal output of all mines, in tons of 2,000 pounds.	78,983,527	
Tumber of shipping or commercial mines.	324	63,673,5
otal output of shipping mines, tons	77,412,054	62,283,2
otal output of shipping mines, tons.	486	
lumber of mines in local trade only		1 000 0
Output of local mines, tons	1,571,473	1,390,2
otal tons of mine run coal	17,351,352	11,026,66
otal tons of lump coal.	24,250,639	21,768,0
otal tons of egg coal	11,532,605	8,775,0
otal tons of nut coal.	4,869,633	4,279,0
otal tons of pea coal	19,002,022	15,969,6
otal tons of slack coal	1,977,276	1,855,16
otal tons shipped	53,115,828	44,154,4
'ons supplied to locomotive at mines	627,888	676,2
ons sold to railroad companies	19,806,419	14,447,4
ons sold local trade	2,882,156	2,244,0
ons consumed (or wasted) at the plant	2,551,236	2,151,3
verage days of active operation for shipping mines	215	1
verage days of active operation for all mines.	179	1
umber of motors in use	744	6-
Tumber of mining machines in use	1,920	1,8
Tumber of tons undercut by machines	47,232,889	39,370,1
Tumber of tons mined by hand	31,750,647	24,303,3
umber of miners employed during the year umber of other employees underground umber of boys employeed underground	27,114	27,2
Tumber of other employees underground	44,496	40,7
Jumber of boys employed underground	1,527	1.4
limber of employees above ground	7,756	6.4
otal number of employees	80,893	75,9
otal number of employees. verage price paid per gross ton for hand mining, shipping mines.	\$0,705	\$0, 6
verage price paid per gross ton for machine mining.	. 568	. 5
umber of kegs of powder used for blasting coal	1,522,363	1,150,5
lumber of keys of powder used for other nurnoses	2.574	1,3
umber of kegs of powder used for other purposes umber of pounds of permissible explosives used	1,827,501	1,536,7
umber of points of permissiple (Aprosives used	207	1,500,1
lumber of men accidently killed umber of men injured so as to lose a month or more of time.	1,634	1,3
umber of gross tons mined to each life lost	381,563	385,9
tumber of employees to each life lost.	391	4
fumber of deaths per 1,000 employed	2, 56	2.
Tumber of gross tons mined to each man injured.	48,338	48,7
tumber of gross tons mined to each man injured	48,338	40,1
uniber of employees to each man injured	90	

#### CLASSIFICATION OF MINES.

Table 1 shows the number of mines, men and tons in all mines, also for shipping and local mines, by districts.

Table 1-Mines, men and tons, shipping and local mines, by districts.

70.4.4.		All min	es.	S	hipping	mines.	Local mines.			
District.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	
First	52	3,144			2,568	1,427,898	38	576	351,61	
econd	81	3,281	1,823,820	. 9	2,848	1,628,019	72	433	195,80	
hird	97	4,959	3,593,441		4,511	3,318,856	73	448 562	274,58	
ourth	185 52	3,442 6,859	2,790,350 6,716,090		2,880 6,630	2,548,722 6,547,072	166 24	229	241,65 169,0	
ixth	34	7,601	7,634,571		7,578	7,624,006	3	23	10.56	
eventh	34	9,001	10,240,425		8,938	10,220,509	13	63	19.91	
lighth	36	6,821	7,667,369		6,769	7,635,895		52	31.4	
inth	63	5,360	5,755,650		5,227	5,652,416	16	133	103,2	
enth	57	5,501	5,218,599	29	5,351	5,138,500	28	150	80,0	
leventh	72	15,618	16,079,571	42	15,515	16,035,481	30	103	44,09	
welfth	47	9,306	9,684,125	35	9,241	9,634,680	12	65	49,44	
The State, 1917	810	80,893	78,983,527	324	78,056	77,412,054	486	2,837	1,571,47	
he State, 1916	803	75,919	63,673,530	284	72,998	62,283,236	519	2,921	1,390,29	
Increase (+).	+7	+4.974	+15,309,997	+40	+5.058	+15,128,818	-33	-84	+181,1	

Table 2 is the percentages of the items shown in Table 1.

Table ?—Percentages of mines, men and tons, all mines and of shipping and local mines.

District.	Pero	entages- mines.	-all	Percen	tages—sh mines.	ipping	Percentages—local mines.			
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	
First	6, 42	3, 76	2, 25	26, 92	81, 68	80, 24	73, 08	18, 32	19, 76	
Second.	10.00	4, 06	2, 31	11. 11	86, 80	89, 32	88, 89	13, 20	10, 63	
Phird	11, 98	6, 13	4, 55	24, 74	90, 97	92, 36	75, 26	9, 03	7, 64	
Fourth	22, 84	4, 25	3, 53	10, 27	83, 67	91.34	89, 73	16. 33	8.66	
Fifth	6, 42	8, 48	8, 50	53, 84	96, 66	97.48	46. 16	3.34	2. 53	
ixth	4, 20	9, 52	9.67	91, 18	99, 70	99.86	8, 82	.30	. 1	
eventh	4. 20	11, 13	12.97	61, 76	99, 30	99, 81	38. 24	. 70	. 1	
Eighth	4.44	8, 43	9.71	69, 44	99, 24	99.59	30.56	. 76	. 4	
Ninth	7.78	6.63	7, 29	74.60	99. 37	92, 20	25. 40	. 63	1. 8	
Centh	7.03	6.80	6.61	50, 88	97. 27	98. 47	49, 12	2.73	1. 5	
Eleventh	8. 89	19, 31	20, 35	58. 33	99. 34	99.73	41.67	. 66	. 2	
welfth	5. 80	11.50	12, 26	74. 47	99, 30	99. 49	25, 53	. 70	. 5	
The State	100, 00	100, 00	100, 00	40,00	96, 49	98, 26	60, 00	3, 51	1.7	

Table 3 gives for a series of 25 years the items shown in Table 1.

Table 3—All mines, men and tons and shipping and local mines for  $25\ \text{years}.$ 

		Total	i. "		Shippi	ng.	Local.			
Year.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	
1893 1894 1895 1896 1896 1897 1897 1898 1990 1900 1902 1902 1908 1904 1906 1907 1908 1910 1911 1912 1918 1914 1914	836 874 862 853 881 920 915 933 932 990 1,018 933 922 886 881 845 879	35,390 38,477 38,632 37,032 33,788 35,091 39,384 44,143 46,005 44,143 54,774 59,230 66,714 72,733 77,463 477,410 79,417 79,417 79,497 80,607 75,919 80,993	19,949,564 17,112,576 11,735,626 11,736,626 20,152,1539,229 21,539,239 23,1539,239 24,1559,239 25,1635,319 30,021,300 37,077,897 37,183,374 49,272,452 49,272,452 49,272,452 49,272,452 49,163,710,51	310 319 319 330 330 320 323 323 331 332 353 380 411 407 384 389 387 387 387 387 387 389 387 389 389 389 389 389 389 389 389 389 389	28,737 31,243 31,174 28,185 31,322 32,297 34,307 36,298 40,926 42,807 46,494 46,494 46,494 51,384 55,743 55,743 69,518 71,520 74,508 76,407 76,855 77,262 77,298 77,298 78,036	19, 257, 682 16, 106, 613 16, 578, 800 16, 578, 800 16, 258, 066 17, 265, 561 17, 265, 561 17, 265, 561 17, 265, 561 17, 265, 561 17, 265, 561 17, 261 18, 262, 262 18, 262	478 517 555 532 543 556 586 587 588 580 580 582 599 522 503 491 458 499 489 489 489	6,653 7,234 7,456 8,847 2,466 2,729 3,391 3,198 3,217 3,198 3,390 3,482 3,560 3,432 3,560 3,215	691, 882 1,006,903 1,136,974 1,523,570 884,158 940,788 1,006,633 1,108,503 1,108,503 1,128,830 1,128,830 1,128,830 1,128,830 1,128,830 1,128,830 1,128,722 1,462,722 1	

Table 4 shows a classification of the mines by groups and gives the number of mines, men and tons in each group.

### TABLE 4—GROUPING OF MINES BY TONNAGE.

	Tonnage and mines producing—										
Districts.	Under 1,000.			1,000 but under 10,000.			10,000 but under 50,000.				
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.		
First.	17	78	3,698	13	117	34,160		423			
Second	28 37	76	9,803		319 281	133,530 151,425	5 12	108 345			
Pourth	126	96 274	13,954 49,212		188				225,375		
Fifth	6	29	3,280	18	253	63,439	8 5 3	182	87,328		
ixth				3	23	10,565	3				
eventh	7	23	2,765		108	23,668	1	234			
Eighth	6	12	1,392		77	19,794	6	294 720			
Ninth	10	24 26	1,230	14 17	124 112	68,038 65,460	18	404			
Centh	22	49	4,175 8,639	7	42	18,901	3	204			
Welfth	5	16	2,750	6	45	26,695	5	130	82,880		
The State	266	703	100,898	197	1,689	699,778	86	3,445	2,148,07		

Table 4—Concluded.

	Tonnage and mines producing—										
Districts.	50,000 b	ut und	er 100,000.	100,000 h	ut und	er 200,000.	200,000 and over.				
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.		
First. Second. Third. Fourth. Fifth. Sixth. Seventh. Eighth. Ninth. Tenth. Eleventh. Twelith.	5 1 3 2 6 5 1 1 1 11 9	727 134 255 225 680 641 175 173 833 899 515	355,073 98,209 224,357 144,570 430,170 379,207 97,390 94,699 770,605 713,840 234,969 320,405	1 7 11 6 7 3 3 11 3 7	961 1,254 685 511	101,903 993,634 1,500,268 919,045 1,230,311 469,424 362,230 1,485,123 456,592 1,106,944	5 7 3 11 16 15 15 7 9	5,514 7,776 5,754 2,370 3,536 12,526	1,383,175 1,938,827 786,842 5,212,828 5,956,420 9,607,121 7,046,083		
The State	52				<u> </u>	10,397,586			61,773,697		

Table 5 shows the number of mines, men and tons in three groups, by districts.

Table 5—Grouping of mines, men and tons into three classes, by districts, all mines.

District.	Less	han 50,0	00 tons.		00 and le		100,000 tons and over.			
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	
First. Second. Third. Fourth Fifth Sixth Seventh Eighth Ninth. Tenth. Tenth Twelfth	41 74 80 169 29 6 15 17 34 36 32 16	618 503 722 694 464 192 365 383 868 542 295 191	280,367 240,533 436,623 358,670 154,047 68,633 66,490 164,357 602,679 334,507 129,519 112,325	5 1 3 2 6 5 1 1 11 9 4 4	727 134 255 225 680 641 175 173 833 899 515 542	355,073 98,209 224,357 144,570 430,170 97,390 94,699 770,605 713,840 234,969 320,405	6 6 14 14 17 23 18 18 18 12 36 27	1,799 2,644 3,982 2,523 5,715 6,768 8,461 6,265 3,659 4,060 14,808 8,573	1,144,076 1,485,078 2,932,461 2,287,110 6,131,873 7,186,731 10,076,545 7,408,313 4,382,366 4,170,252 15,715,083 9,251,395	
The State, 1917 The State, 1916		5,837 7,515	2,948,750 2,816,967	52 48	5,799 5,619	3,863,494 3,524,602	209 171	69,257 62,785	72,171,283 57,331,961	
Increase (+), decrease (—)	-35	-678	+131,783	+4	+180	+348,872	+28	+6,472	+14,839,322	

Table 6 is the percentages of the items shown in Table 5.

Table 6—Percentages of Mines, Men and Tons—Mines Producing—

District.	Less tl	nan 50,00	0 tons.	50,000	and less 0,000 ton	than	100,000 tons and over.			
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	
First. Second Third Fourth Fifth Sixth Seventh Eighth Ninth Tenth Teuth Tweltth The State.	7. 47 13. 48 14. 57 30. 78 5. 28 1. 11 2. 72 3. 10 6. 19 6. 56 5. 83 2. 91	10. 59 8. 61 11. 36 11. 89 7. 95 3. 29 6. 26 6. 56 14. 87 9. 29 5. 05 3. 28	9. 52 8. 16 14. 81 12. 16 5. 22 2. 32 2. 25 5. 57 20. 43 11. 35 4. 39 3. 82	9. 43 1. 88 5. 66 3. 74 11. 32 9. 44 1. 88 3. 74 20. 85 16. 98 7. 54 7. 54	12. 26 2. 26 4. 30 3. 80 11. 47 10. 81 2. 96 5. 09 14. 05 15. 17 8. 69 9. 14	8. 94 2. 47 5. 65 3. 64 10. 83 9. 55 2. 45 5. 10 19. 40 17. 98 5. 92 8. 07	2. 88 2. 88 6. 73 6. 73 8. 17 11. 06 8. 65 8. 17 8. 65 5. 78 17. 31 12. 99	2. 60 3. 82 5. 76 3. 65 8. 27 9. 80 12. 24 8. 88 5. 30 5. 87 21. 41 12. 40	1. 59 2. 07 4. 07 3. 17 8. 52 9. 97 13. 99 10. 14 6. 08 5. 79 21. 77 12. 84	

Table  $\gamma$  shows the number of mines, men and tons with percentages in six groups.

Table 7—Classification of mines by tonnage with percentages of mines, men and tons in each class.

Mines and dealer	Number	Number		Percentages of—			
Mines producing—	of mines.	of men.	Tons.	Mines.	Men.	Tons.	
Less than 1,000 tons. 1,000 and less than 10,000 tons. 1,000 and less than 50,000 tons.	197	703 1,689 3,445	100,898 699,778 2,148,074	32. 84 24. 32 10. 62		. 13	
0,000 and less than 100,000 tons	52	5,799 12,090 57,167	3,863,494 10,397,586 61,773,697	6, 54 8, 52 17, 16	7. 32 14. 79 70. 67	4. 8 13. 1 78. 2	
Total	810	80,893	78,983,527	100.00	100.00	100, 0	

Table 8 is a grouping of the mines into six classes for a period of 26 years.

TABLE S—GROUPING OF MINES BY TONNAGE FOR A SERIES OF 26 YEARS.

						Mines pr	odue	ing—				
Year.		tons.		1,000 and under 10,000 tons.		10,000 and under 50,000 tons.		000 and er 100,000 tons.	100,000 and under 200,000 tons.		200,000 tons and over.	
	Mines.	Tons.	Mines.	Tons.	Mines.	Tons.	Mines.	Tons,	Mines.	Tons.	Mines.	Tons.
\$92 \$93 \$94 \$95 \$95 \$97 \$97 \$90 \$90 \$90 \$90 \$90 \$90 \$90 \$90 \$90 \$90	3322 2822 319 3300 346 346 340 341 313 314 313 321 336 260 2488 270 261 235 266 268 239 236 239 236 268 269 269 269 269 269 269 269 269 269 269	147,777 121,636 137,507 151,430 170,982 150,445 150,445 154,318 227,419 161,058 126,678 126,678 129,430 127,232 108,875 95,427 106,124 97,266 93,573 111,734 102,715 87,916 105,992 100,898	239 232 252 276 280 250 244 261 295 308 263 275 299 282 262 262 239 213 208 224 202 224 202 219 219 219 219 219 219 219 219 219 21	1,058,078 726,199 702,623 866,019 807,148 807,148 969,244 969,249 934,042 934,042 934,042 934,042 934,042 949,073 827,339 793,236 771,946 782,850 932,300 771,966 693,370 723,259 680,577	151 140 161 145 128 120 151 123 124 152 120 140 147 147 145 134 125 138 119 108 90 62 78 86	4,134,239 3,132,499 4,022,543 3,609,918 3,265,822 3,162,713 3,255,577,117	65 75 61 61 63 79 86 77 77 70 79 76 75 72 83 89 91 86 66 87 86 64 48 52	4,293,472 6,179,487 4,416,969 5,049,604 5,993,193 6,331,513 5,376,330 5,376,330 5,376,330 5,376,330 5,376,330 5,376,330 6,116,018 6,600,244 7,130,739 4,939,139 6,353,951 6,353,	98 88 97 95 92 90 94 101 91 82 95 65	5,855,091 6,291,965 6,035,094 6,346,937 6,020,370 5,778,374 5,888,596 7,443,023 8,995,963 8,008,887 9,923,538 12,185,095 13,462,256 13,376,144 13,181,385 12,609,581 13,472,296 13,374,090 11,792,61	45 46 52 47 80 82 87 75 76 105 114 103 104 111	2,373,59 3,497,77 1,473,55 2,344,59 4,512,61 4,514,50 1,709,45 6,566,55 6,769,32 8,370,23 10,101,86 12,728,40 12,728,40 12,728,40 22,978,80 22,978,80 22,978,80 24,117,49 24,117,49 24,117,49 34,40,49 41,413,45 41,413,413,45 41,413,45 41,413,45 41,413,45 41,413,45 41,413,45 41,413,413,45 41,413,45 41,413,45 41,413,45 41,413,45 41,413,45 41,413,413,45 41,413,45 41,413,45 41,413,45 41,413,45 41,413,45 41,413,413,45 41,413,45 41,413,45 41,413,45 41,413,45 41,413,45 41,413,413,45 41,413,45 41,413,45 41,413,45 41,413,45 41,413,45 41,413,413,45 41,413,45 41,413,45 41,413,45 41,413,45 41,413,45 41,413,413,45 41,413,45 41,413,45 41,413,45 41,413,45 41,413,45 41,413,413,45 41,413,45 41,413,45 41,413,45 41,413,45 41,413,45 41,413,413,45 41,413,413,41 41,413,41 41,413,41 41,413,41 41,413,41 41,413,41 41,413,41 41,413,41 41,413,41 41,413,41 41,413,41 41,413,41 41,413,41 41,413,41 41,413,41 41,413,41 41,413,41 41,413,41 41,413,41 41,41 41,41 41,41 41,41 41,41 41,41 41,41 41,41 41,41 41,

Table 9 gives the percentages of the items in the preceding table.

Table 9—Percentages of mines and tons produced in specified groups for 26 years.

			Percer	itage o	f mines	and to	ons by	mines	produ	ei ng—		
Year.	Under		1,000 uno 10,000	ler	10,000 uno 50,000	ler	50,000 and under 100,000 tons.		100,000 and under 200,000 tons.		200,000 tons and over.	
	Mines.	Tons.	Mines.	Tons.	Mines.	Tons.	Mines.	Tons.	Mines.	Tons.	Mines.	Tons.
1892 1893 1894 1894 1895 1895 1896 1897 1899 1899 1900 1902 1902 1903 1904 1905 1906 1907 1908 1909 1909 1910	39, 69 35, 91 37, 08 36, 43 38, 90 40, 56 39, 84 38, 92 36, 96 31, 31, 32 33, 55 32, 30 32, 43 33, 01 27, 82 26, 90 30, 47, 81 30, 27, 81 31, 32, 84	. 822 . 61 . 80 . 855 . 875 . 877 . 879 . 611 . 855 . 333 . 335 . 331 . 111 . 222 . 200 . 197 . 155 . 187 . 191 . 191	29, 44 29, 29, 44 29, 07 33, 29 30, 66 29, 31 27, 70 29, 36 32, 07 33, 66 28, 74 31, 40 20, 50 30, 20 27, 70 28, 08 27, 77 26, 98 27, 12 25, 21 25, 21 25, 50 26, 13 28, 74 31, 40 21, 77 26, 12 25, 16 25, 16 21, 32	5. 92 3. 64 4. 11 4. 88 4. 08 3. 72 3. 98 3. 86 3. 15 2. 54 2. 49 2. 22 67 2. 48 1. 70 1. 59 1. 91 1. 46 1. 34 1. 26 1. 11 1. 26 1. 07	19. 62 16. 65 14. 88	23. 15 15. 70 23. 50 20. 35 16. 51 15. 75 20. 36 12. 28 12. 94 12. 71 12. 31 9. 72 10. 36 13. 31 8. 17 7. 35 7. 35 7. 35 3. 74 4. 53 3. 74 2. 62 2. 72	7. 03 10. 92 8. 25 7. 33 8. 35 9. 26 9. 76 8. 66 7. 61 8. 63 8. 31 8. 04 7. 73 8. 38 8. 74 9. 76 10. 63 7. 45 9. 71 7. 77 7. 86 8. 05 7. 18 8. 05 9. 76 10. 63 9. 76 10. 63 10. 6	24. 04 30. 98 27. 71 24. 91 25. 52 28. 37 34. 15 23. 97 19. 92 21. 76 17. 90 15. 58 14. 03 15. 78 10. 05 13. 81 14. 48 10. 05 13. 91 11. 96 8. 76 8. 76 8. 76 8. 76 8. 78 9. 89 9. 80 9. 8	4. 89 5. 71 5. 26 5. 25 5. 61 4. 81 4. 77 6. 41 7. 87 9. 33 10. 51 10. 53 10. 68 11. 95 10. 53 9. 76 11. 93 8. 89 9. 76 11. 93 8. 89 9. 76 11. 93 8. 89 9. 76 11. 93 8. 89 9. 76 11. 93 8. 89	32. 78 31, 54 35, 26 35, 79 33, 14 28, 79 31, 71 31, 76 35, 76 35, 76 35, 44 37, 09 32, 70 25, 13 27, 98 26, 75 28, 81 29, 21 20, 21 21, 21 21	1. 19 1. 78 . 72 1. 05 1. 60 1. 99 2. 81 2. 93 3. 61 4. 15 4. 82 4. 94 5. 25 5. 46 8. 88 9. 82 9. 82 9. 82 9. 83 11. 95 13. 33 13. 35 13. 35 13. 82 17. 16	17. 53 8. 61 13. 22 20. 03 22. 49 9. 19 28. 02 26. 91 31. 43 33. 65 36. 41 36. 30 38. 14 32. 79 48. 08 49. 10 55, 15 49. 50

Table 10 is a list of the mines which produced more than 100,000 tons and gives the location, the number of men employed, days worked, total output and the average production each day worked.

Table 10-Mines from which more than 100,000 tons of coal have been delivered during the Year.

Rank.	. Companies.	Location.	Men.	Days.	Total tons.	A ver- age tons per day.
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17	Superior Coal Co., No. 3. Old Ben Coal Corporation, No. 8. Superior Coal Co., No. 2. Bell & Zoller Mining Co., No. 1. Chi., Wilm. & Franklin Coal Co., No. 1. New Staunton Coal Co., No. 1. New Staunton Coal Co., No. 0. Mt. Olive & Staunton Coal Co., No. 2. Old Ben Coal Corporation, No. 9. United States Fuel Co., No. 1. Superior Coal Co., No. 1. United States Fuel Co., No. 1. Lonk Bros. Coal & Coke Co., No. 2. Cossolidated Coal Co., No. 1. United States Fuel Co., No. 1. United States Fuel Co., No. 1. Consolidated Coal Co., No. 2. Consolidated Coal Co., No. 1. Peabody Coal Co., No. 1. Peabody Coal Co., No. 7. Madison Coal Corporation, No. 6.	Gillespie W. Frankfort Gillespie Zeigler Orient Livingston. U. Frankfort Staunton. Staunton. Gillespie Westville Christopher Garyille East St. Louis. Staunton. Westville Kincaid. Divernon	690 829 709 779 969 647 889 637 669 674 7793 785 588 622 748 562 513	260 256 249 249 272 216 203 252 233 258 263 254 291 271 239 261 246 237	1,158,796 1,093,317 1,071,283 1,065,359 1,008,474 937,004 933,141 991,881 891,882 885,467 877,920 869,504 866,317 842,875 770,643 739,937 734,733 726,319	4,457 4,271 4,302 4,280 3,708 4,338 4,597 3,579 3,828 3,720 3,338 3,423 2,977 3,113 2,835 2,987 3,065

## Table 10—Continued.

Rank.	Companies.	Location.	Men.	Days.	Total tons.	Aver- age tons per day.
	Centralia Coal Co., No. 5.  W. P. Kend Coal & Coke Co., No. 2. Consolidated Coal Co., No. 7. Shoal Creek Coal Co., No. 1. Chi., Wilm. & Franklin Coal Co., No. 1. Chi., Wilm. & Franklin Coal Co., No. 1. Chi., Wilm. & Franklin Coal Co., No. 1. Old Ben Coal Corporation, No. 10. C. & E. I. Coal Properties, No. 14. Old Ben Coal Corporation, No. 12. Johnston City Coal Co., No. 1. Peabody Coal Co., No. 1. Coal Co., No. 1. Coal Co., No. 1. Majestic Coal & Coke Co., No. 1. Security Coal Co., No. 8. Marion County Coal Co., No. 1. Security Coal & Mining Co. Donk Bros. Coal & Coke Co., No. 1. Chieago & Carterville Coal Co., A. Southern Coal, Coke & Mining Co., No. 1. Chieago & Carterville Coal Co., No. 1. Sesser Coal Co. Coke Co., No. 1. Chieago & Carterville Coal Co., No. Sesser Coal Co. Roval Colliery Co.	la				
19	Centralia Coal Co., No. 5	Centralia	565	276	705,514 702,304 692,636 680,946	2,556
20	W. P. Rend Coal & Coke Co., No. 2	Herrin Staunton	604 569	248 239	602,304	2,882
21	Shool Creek Cool Co. No. 1	Panama	548	275	680 946	2,832 2,898 2,476
22 23	Chi Wilm & Franklin Coal Co., No. 1	Thayer Christopher Witt.	508	262		
24	Old Ben Coal Corporation, No. 10	Christopher	559	261	656,261 645,778 641,427 636,262	2,514 3,046 2,545
25	C. & E. I. Coal Properties, No. 14	Witt	662	212	645,778	3,046
26 27	Old Ben Coal Corporation, No. 12	Christopher	504	252	641,427	2,545
27 28	Johnston City Coal Co., No. 1	Johnston City Marion	473 600	266 270	630,262	2,392
28	West Frankfort Coal Co. No. 1	W. Frankfort	473	241	627,400 624,714 610,040	2,324 2,592
30	Consolidated Coal Co., No. 15	W. Frankfort Mt. Olive	599	177	610,040	3,447
31	Nokomis Coal Co., No. 1	Nokomis	465	194	1 605.868	3.123
32	Majestic Coal & Coke Co., No. 1	Duquoin Nokomis Dewmaine	549	219	599,540	2,738
33	C. & E. I. Coal Properties, No. 10	Nokomis	585 465	190 259	594,411 564,954	3,128
34 35	Pashody Cosl Co. No. 8	Kincaid	411	252	564,311	2,181 2,239
36	Marion County Coal Co., No. 1	Glenridge	504	276	557,458	2.020
37	Franklin Coal & Coke Co., No. 1	Royalton	575	209	557,458 555,505 550,261 548,977	2,658
38	Security Coal & Mining Co	Duquoin Collinsville	570	179	550,261	3,074
39	Donk Bros. Coal & Coke Co., No. 1	Collinsville	391	271	548,977	2,026
40	Chicago & Carterville Coal Co., A	Herrin Belleville	459 405	243 236	522,373	2,150 2,197
41	Secon Coal Co	Sesser	650	236	509.324	2,158
43	Sesser Coal Co. Royal Colliery Co. Springfield District Coal Mining Co., No. 2. Southern Coal, Coke & Mining Co., No. 9.	Virden	456	233	518,496 509,324 508,097	2.181
44	Springfield District Coal Mining Co., No. 2.	Riverton	494	249	500,517 499,640 494,528 491,388	2.010
45	Southern Coal, Coke & Mining Co., No. 9	New Baden	418	225	499,640	2,221 2,523
46	Saline County Coal Co., No. 3. Big Muddy Coal & Iron Co., No. 8.		458 464	196 234	494,528	2,523
47	Big Muddy Coal & Iron Co., No. 8	Clifford Duquoin	496	210	483,483	2,100
48 49	Madison Coal Corneration No. 8	Dewmaine	395	262	482.079	1,840
50	Big Muddy Coal & Iron Co., No. 7	Herrin	425	244	481,278	1,972
51	Big Muddy Coal & Iron Co., No. 8  Paradise Coal Co. Madison Coal Corporation, No. 8.  Big Muddy Coal & Iron Co., No. 7  C. & E. I. Coal Properties, No. 11  Searls Coal Co.	Hillsboro Johnston City	348	262	482,079 481,278 481,224	1.837
52	Searls Coal Co	Johnston City	423	194	464,313 458,934	2,393
53	Searts Coal Co. O'Gara Cooal Co., No. 9. Consolidated Coal Co., L. C. Springfield District Coal Mining Co., No. 4. Jones & Adams Coal Co. Peabody Coal Co., No. 21. Benton Coal Co.	Harrisburg	402 380	206 215	458,934	2,393 2,228 2,130
54	Consolidated Coal Co., L. C.	Johnston City	373	215	458,043 454,700	1,776
55 56	Lones & Adams Coal Co.	Auburn Springfield	414	240	450,455	1.876
57	Peabody Coal Co., No. 21	Stonington	372	271	448,248	1,654
58	Benton Coal Co	Benton	549	195	450,455 448,248 440,864 437,247	1,654 2,261 2,389
59	Consolidated Coal Co., No. 17	Collinsville	344	183	437,247	2,389
60	Peabody Coal Co., No. 24	Westville	366 437	263 237	431,979	1,643 1,813
61 62	St Paul Coal Co. No. 1	Granville	721	270	429,721 427,562 410,721	1.584
63	Lumaghi Coal Co., No. 2	Collinsville	426	195	410,721	1,584 2,106
64	T. G. Warden Coal Co	Herrin	326	242		1 1.632
65	Madison Coal Corporation, No. 2	Glen Carbon	348	233	386,880 384,555 348,543 347,523	1,660
66	Wasson Coal Co., No. 1	Wasson	401 301	194 239	384,555	1,982 1,458
67 68	Chicago & Springfield Coal Co	Springfield	292	255	347, 593	1.362
69	John A. Logan Coal Co.	Logan	323	259	344,116	1,329
70 71	O'Gara Coal Co., No. 10	Eldorado	265	259	341,680	1,329 1,317
71	Dering Coal Co., No. 3	do	314	207	344,116 341,680 341,344 339,265 330,339 328,839 327,151	1.048
72 73	Willis Coal & Mining Co., No. 1	Willisville	272 328	278 279	339,265	1,220 1,184
73	Wilcoxson Coal & Coke Co	Hillshoro	272	247	328 830	1 331
74 75	W. P. Rend Collieries Co.	Rend	310	239	327,151	1,331 1,369
76 77	Kerns-Donnewald Coal Co.	Worden	266	288	324,295 322,288 321,954 320,295	1.226
77	St. Paul Coal Co., No. 2	Cherry	631	272	322,288	1,185
78 79	Springvalley Coal Co., No. 3	Springvalley	511 302	270 254	321,954	1,192 1,261
79 80	Springfield District Coal Mining Co., No. 5.	Springheld	302 251	254 191	320,295 319,630	1,261
81	Montour Coal Co. No. 403	Girard	317	264	318,578	1.207
82	O'Gara Coal Co., No. 1	Harrisburg	336	187	318,578 316,731 315,854	1,207 1,193
83	Springfield District Coal Mining Co., No. 8.	Taylorville	345	188	315,854	1,680
84	Jönes & Adams Coal Co. Peabody Coal Co., No. 21 Benton Coal Co. Consolidated Coal Co., No. 17 Peabody Coal Co., No. 24 Peabody Coal Co., No. 24 Peabody Coal Co., No. 6. St. Paul Coal Co., No. 6. St. Paul Coal Co., No. 6. St. Paul Coal Co., No. 1. Lumaghi Coal Co., No. 1. Lumaghi Coal Co., No. 1. Coal Co., No. 1. Coal Co., No. 1. Coal Co., No. 1. Coal Co., No. 11. Coal Co., No. 11. Coal Co., No. 10. Coal Co., No. 10. Coal Co., No. 10. Dering Coal Co., No. 10. Dering Coal Co., No. 10. Dering Coal Co., No. 10. Willis Coal & Mining Co., No. 1 Willoxson Coal & Coke Co. Hillsboro Coal Co. W. P. Rend Collieries Co. Springfield District Coal Mining Co., No. 5. Springfield District Coal Mining Co., No. 5. Breese-Trenton Mining Co., No. 5. Breese-Trenton Mining Co., No. 5. Breese-Trenton Mining Co., No. 5. Bringfield District Coal Mining Co., No. 5. Bringfield District Coal Mining Co., No. 5. Bringfield District Coal Mining Co., No. 8. Prairic Coal Co. United States Fuel Co., No. 3.	Belleville	289	240		1,280
85	United States Fuel Co., No. 3.	Westville	362	205	305,820	1,492
86 87	Big Creek Coal Co., No. 2	St. David	333 292	259 223	305,820 300,127 296,983	1,159 1,332
88	By Products Coke Corporation No. 18	W Frankfort	264	251	296,983	1.180
89	Jackson Coal Co.	Hallidayboro	340	217	287,228	1,324 1,126
90	B. F. Berry Coal Co., No. 1	Standard	456	253	287,228 284,973	1,126
91	Praine Coal Co., No. 3. United States Fuel Co., No. 3. Big Creek Coal Co., No. 2. By Crede Coal Co., No. 3. By Products Coke Corporation, No. 18. Jackson Coal Co. B. F. Berry Coal Co., No. 1. West End Coal Co.	Springfield	279	254	283,673	1,117
		1	1	1	1	
	* * * * * * * * * * * * * * * * * * * *	- 1 - 1			-	

## Table 10—Continued.

		1		1	1	1
	·					Aver-
nk	Companies.	Location.	Men.	Days.	Total tons.	tons pe
Rank.						day.
_		1				1
92	Penwell Coal Mining Co	Pana	279	198	282,521	1.477
93 94	Penwell Coal Mining Co. Chicago & Sandoval Coal Co., No. 2.	Sandoval	178	220	282,521 281,695	1,477 1,280 936
94		Toluca	628 226	301 278	281,638	1,013
96	Chicago-Big Muddy Coal & Coke Co	Bush Marion	195	259	281,402	1,08
97	Western Coal Mining Co., No. 1 Chicago-Big Muddy Coal & Coke Co. Silver Creek Col. Co. North Breese Coal Mining Co. Taylor Mining Co.	Farmington	225	261	280,900 279,708	1,07
98 99	North Breese Coal Mining Co	Breese	258	173	278,229 277,823	1,608
100	Taylor Mining Co., No. 2. Chi., Wilm. & Franklin Coal Co., No. 3. Southern Coal, Coke & Mining Co., No. 7. Wolschlag Co-operative Coal Co.	Herrin So. Wilmington	236 480	181 259	277,823 276,380	1,53
101	Southern Coal, Coke & Mining Co., No. 7	Belleville	281	220	275 883	1,25
102	Wolschlag Co-operative Coal Co. Worth Virginia Coal Co. Smith-Lohr Coal Mining Co. By Products Coke Corporation, No. 19 Springvalley Coal Co., No. 1. Taylor Mining Co., No. 5. Chicago & Carterville Coal Co., B. Mt. Olive Coal Co. Willis Coal & Mining Co., No. 6. Donk Bros. Coal & Coke Co., No. 3. Kolb Coal Co., No. 2. Latham Coal & Mining Co. St. Ellen Coal Co. St. Ellen Coal Co. St. Ellen Coal Co., No. 6. Seranton & Big Muddy Coal Mining Co. Seranton & Big Muddy Coal Mining Co. Big Muddy Coal & Iron Co., No. 9.	Peoria	180	298	273,315 273,067 271,687	91
$\frac{103}{104}$	Smith-Lohr Cool Mining Co	Marion	230 316	220 256	273,067	1,24
105	By Products Coke Corporation, No. 19	W. Frankfort	340	176	269,641	1,06 1,53
106	Springvalley Coal Co., No. 1	Springvalley	514	250	268.607	1.07
107	Taylor Mining Co., No. 5.	Herrin	217	193	267,177 264,759 264,515	1.38
108 109	Mt. Olive Coal Co.	Herrin	332 260	213	264,759	1,243 1,425
110	Willis Coal & Mining Co., No. 6	Percy	262	186 212	261,444	1,42
111	Donk Bros. Coal & Coke Co., No. 3.	Troy	291	263	259,591	987
112	Kolb Coal Co., No. 2	Mascoutah	205	214	259.010	1,210
113 114	St Ellen Coal Co	Lincoln	343 266	268	256,642 256,544	958
115	Saline County Coal Co., No. 2	Harrishnrg	293	181 188	255,623	1,417
116	Scranton & Big Muddy Coal Mining Co	Marion	204	212	247,638	1,168
117	Scranton & Big Muddy Coal Mining Co. Big Muddy Coal & Iron Co., No. 9. Big Muddy Fuel Co. Illinois Fuel Co., No. 4. Lovington Coal Mining Co. Odin Coal Co. Springvalley Coal Co., No. 5. Citizens Coal Mining Co., B. Saline County Coal Co., No. 6. Breese-Trenton Mining Co., Breese. Illinois Third Vein Coal Co. Clark Coal & Coke Co.	Murphysboro	284	157	246,465	1,570
118	Illipois Evol Co. No. 4	Johnston City	236	247	243,992	988
120	Lovington Coal Mining Co	Lovington	198 200	271 258	240,460 239,818	929
121	Odin Coal Co	Odin	250	263		910
122	Springvalley Coal Co., No. 5.	Dalzell	395	246	236,329 236,329 235,947 235,151 234,396 233,997	961
123 124	Saline County Cool Co. No. 6	Springheld	228 210	251 243	235,947	940 968
125	Breese-Trenton Mining Co., Breese	Breese	201	206	234,396	1,138
126	Illinois Third Vein Coal Co.  Clark Coal & Coke Co.  Pond Creek Coal Co.  Harier Washed Coal Co.  Harrisburg Saline Col. Co., No. 15.  M. E. Case Coal Co.  Montour Coal Co., No. 400.  Groveland Mining Co.  Peabody Coal Co., No. 5.  United States Fuel Co., M. F.  Big Creek Coal Co., No. 4.  Taylor Collieries Co., No. 6.  Pratt Bros.	Ladd	463	256	233,997	914
127	Clark Coal & Coke Co	Peoria	269	276		843
128 129	Hafar Washed Cool Co	Herrin	288 272	217 170	226,882 223,721 222,865 221,254	1,046
130	Harrisburg Saline Col. Co., No. 15	Harrisburg	253	183	222,865	1,316 1,218
131	M. E. Case Coal Co	Peoria	226	283	221,254	782
132 133	Montour Coal Co., No. 400.	Springfield	204	258		851
134	Peabody Coal Co., No. 5	Pawnee	201 300	286 154	217,491 213,612 213,201 207,639	760 1,387
135	Springfield District Coal Mining Co., No. 7.	Springfield	206	243	213,201	877
136	United States Fuel Co., M. F.	Benton	243	217	207,639	957
137 138	Toylor Collieries Co. No. 4	Dunfermline	254 366	247	207,007	838 1,054
139	Pratt Bros.	Herrin	207	196 200	206,636 201,331	1,007
140	Springfield District Coal Mining Co., No. 1.	Andrews	186	202	197,698	979
141	Oglesby Coal Co.	Oglesby	312	269	201,331 197,698 197,584	735
142 143	Taylor Collieries Co., No. 6. Pratt Bros. Springfield District Coal Mining Co., No. 1. Oglesby Coal Co. Taylor Mining Co., No. 1. O'dara Coal Co., No. 8. Springfield Co-operative Coal Co. Lasalle County Carbon Coal Co., No. 5. Moffat Coal Co. St. Louis & O'Fallon Coal Co., No. 1. Superior Mining Co. Tuxhorn Coal Co.	Eldorado	196 204	162 222	196,537 194,932	1,213 878
144	Springfield Co-operative Coal Co.	Springfield	192	259	191,800	741
145	LaSalle County Carbon Coal Co., No. 5	LaSalle	350	236	189,860 189,282	804
146	Moffat Coal Co	Sparta	186	243	189,282	779
147 148	Superior Mining Co	Belleville	203 115	189 248	184,600 183,607	977 740
149	Tuxhorn Coal Co. LaSalle County Carbon Coal Co., No. 5. Manufacturers & Consumers Coal Co. Citizens Coal Mining Co.	Springfield	213	205	180,711	882
150	LaSalle County Carbon Coal Co., No. 5	LaSalle	279	262	180,711 180,220 180,105	688
51   52	Citizens Coal Mining Co	Decatur	233 159	282 263	180,105	639 676
53	Auburn & Alton Coal Co	Auburn	186	203	177,849 176,770	792
54	Auburn & Alton Coal Co.  Wasson Coal Co., No. 2 Carlinville Coal Co. Monmouth Coal Mining Co. Harrisburg Big Muddy Coal Co.	Carriers Mills	223	209	176,351	844
55	Carlinville Coal Co	Carlinville	182	244	176,351 175,344 172,413	719
.56 .57	Harrishurg Big Muddy Coal Co	Harrishurg	200 192	258 199	172,413 171,576	668 862
158	Wenona Coal Co.	Wenona	292	292	170 025	588
159	Mathiessen & Hegeler Zinc Co	LaSalle	155	273	170,148 169,268 167,163	628
160	Missionfield Coal Co., No. 2.	Oakwood	150	276	169,268	613
$\frac{161}{162}$	Harrisburg Big Muddy Coal Co.  Wenona Coal Co.  Mathiessen & Hegeler Zine Co.  Missionfield Coal Co., No. 2. C. & E. I. Coal Properties, No. 12.  Eldnar Coal Co.  Misco Coal Co. No. 8.	Witt	287 149	154 207	167,163 166,123	1,085 803
					100,120	
163 164	Eldnar Coal Co. Alden Coal Co., No. 8. Lincoln Mining Co.	Farmington	157	260	163,876 162,020	630 747

Table 10—Concluded.

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Rank.	Companies.	Location.	Men.	Days.	Total tons.	Average tons per day.
165	Dunean Coal Co	Herrin	168	180	161,802	899
166	O'Gara Coal Co., No. 4 Two Rivers Coal Co.	Harrisburg	167 78	188 263	160,381 159,373	853 606
167 168	Williamson County Coal Co.	Johnston City	215	203	158,746	790
169	Crescent Coal Co.	Peoria	215	257	158,340	616
170	Ritchey Coal Co.		181	239	156,504	654
171	Suburban Coal & Mining Co	Belleville	100	267	156,356	586
172	Athens-Dawson Coal Co., No. 1.	Athens	157	247	155,878	631
173	O'Gara Coal Co., No. 3		218	169	154,669	915
174	National Coal Mining Co	Farmington	160	263	150,074	571
175	Star Coal Co., No. 3.	Cuba	181	251	147,278	587
176	Tazewell Coal Co.		172	275	146.627	536
177	Ernest Coal Co.	Johnston City	120	163	145,651	893
178	Mt. Olive & Staunton Coal Co., No. 1	Staunton	213	152	144,297	949
179	Missionfield Coal Co., No. 3	Oakwood	135	276	143,855	521
180	Spring Creek Coal Co	Springfield	147	271	143,463	529
181	Carbon Hill Coal Co	Danville	65	240	143,439	598
182	Harrisburg Big Muddy Coal Co., No. 14		218	169	143,390	848
183	Simmons Coal Co	Canton	156	223	137,674	617
184	Roanoke Coal Co	Roanoke	223	295	132,811	450
185	Taylor Mining Co., No. 3.		205	128	132,476	1,035
186	Maplewood Col. Co	Farmington	110	278	132,053	475
187	Wilmington Star Mining Co., No. 7		223	275	129,884	472
188	Eagle Mining Co		165	251 252	128,085	510 507
189	Alden Coal Co., No. 6.	Norris	161 95	172	127,839 127,324	740
190 191	International Coal & Mining Co., Carbon	O'Fallon	216	150	126,917	846
192	Montour Coal Co., No. 402 Pana Coal Co.	Pana	300	161	123,005	764
193	Alden Coal Co., No. 5.	Farmington	145	261	120,020	460
194	Big Creek Coal Co., No. 3		145	207	118,717	574
195	Logan Coal Co.	Hanna City	132	263	118,466	451
196	Mulberry Hill Coal Co	Freehurg	90	143	118,109	826
197	Columbia Coal Co	Belleville	82	253	116,635	461
198	International Coal & Mining Co., Taylor	O'Fallon	170	129	115,307	894
199	Kolb Coal Co., No. 1	Mascoutah	103	338	112,972	334
200	Jones Bros. Coal & Mining Co., No. 2	Tilden	157	147	110,806	754
201	Newsam Bros	Glasford	110	260	110,587	425
202	Lumaghi Coal Co., No. 3	Collinsville	169	148	110,038	743
203	Carterville Big Muddy Coal Co	Cambria	219	195	109,204	560
204	Poeahontas Mining Co	Poeahontas	129	210	107,895	514
205	White County Mining & Power Co	Norris City	95	211	105,645	501
206	Star Coal Co., Star	Freeburg	72	201	103,254	514
207	Spoon River Col. Co.		131	261	102,239	392
208	Alden Coal Co., No. 7	Matherville	130	262	101,903	389
209	Egyptian Coal & Mining Co	Marissa	110	157	100,836	642
	Total		69,257	233	72,171,283	1,491

Table 11 is a classification of the mines by employees and shows the number of mines, men and tonnage in each class.

Table 11—Classification of mines by employees.

	Number	Number	Tons	Percentage of—			
Operators employing—	of mines.	of men.	mined.	Mines.	Men.	Tons.	
Less than 10 men	414	1,481	579,405	51, 11	1, 83	. 73	
10 but less than 50.	110	2,382	1,720,712	13. 58	2, 94	2, 18	
50 but less than 100	55	3,994	3,216,708	6.79	4, 94	4, 07	
100 but less than 200	67	9,914	8,560,538	8, 27	12. 26	10, 84	
200 but less than 300.	69	16,452	15,062,238	8, 52	20, 34	19, 07	
300 but less than 400	32	10,908	10,620,338	3, 95	13, 48	13, 44	
400 but less than 500.	22	9,856	10,390,313	2, 72	12. 18	13, 16	
500 but less than 600.	20	10,970	12,122,283	2, 47	13, 56	15, 35	
500 but less than 700	12	7,714	8,624,495	1, 48	9, 54	10, 92	
700 and over	9	7,222	8,086,497	1. 11	8, 93	10. 24	
		-,222	0,000,101	1.11	0.00	10.00	
Total	810	80,893	78,983,527	100, 00	100,00	100, 00	

#### GAIN OR LOSS IN MINES.

Table 12 shows for 18 years the number of mines, both shipping and local, at the beginning of the year, the number opened and the number closed during the year and the number in operation at the close of the year with the gain or loss, each year—1900 to 1917 inclusive.

Table 12—Shipping and local mines, number opened and closed and the gain or loss, for 18 years.

			Nu	mber o	of mine	s						
Year.	At beginning of year. New or re-opened.				Abano tempo clos	r rarily	At c		Ga	ın.	Lo	ss.
	Shipping.	Local.	Shipping.	Local.	Shipping.	Local.	Shipping.	Local.	Shipping.	Local.	Shipping.	Local.
1900	321 323 331 332 353 380 497 419 411 407 384 390 387 380 371 340 280 284	568 597 584 583 580 552 593 599 522 515 502 491 458 499 469 459 519	2 8 8 1 21 27 17 22  16 18 27 29 15 10 6 6 2 41	145 1300 1100 88 82 151 129 88 81 63 59 155 161 71 79 116 115	8 20 411 32 22 24 41 633 18	116 143 111 91 110 110 123 165 88 76 70 188 120 101 92 76 75	323 331 332 353 380 397 419 411 407 384 390 387 380 371 340 280 284 324	597 584 583 580 552 593 599 522 515 502 491 458 499 469 456 519	8 1 21 27 17 22 6	41 6 41 41 20	8 4 23 3 7 9 31	777 7 133 111 333 30 133 333 334 335 335 335 335 335 335 335 3

Table 13. In this table is given the counties in which shipping mines are located, showing the number of mines, men and tons produced for the year and for 1916, with the gain or loss.

Table 13—Shipping mines, number of mines, men and tons, by counties, with the gain or loss for the year 1917.

	1916			1917		Gain (+) or loss (-).			
Counties.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
The State  Bond. Bureau. Christian Clinton Franklin Fulton Gallatin Grundy. Jackson.	284 1 5 8 4 19 18 2 2 2 6	72,998 99 2,811 2,433 1,239 8,606 2,760 135 728 919	2,373,362 1,395,588 9,070,811 1,901,309	5 9 5 21 19 2	129 2,514 2,750 1,401	2,822,167 1,426,594 11,317,657 2,548,722 116,145	+1 +1 +2 +1	+5,058 +30 -297 +317 +162 +1,905 +120 -25 +58	+15,128,818 +51,413 +89,865 +448,805 +31,006 +2,246,846 +647,413 +65,596 +102,849 -7,567

Table 13—Concluded.

		1916			1917		Gain	(+) or l	oss (—).
Counties.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
LaSalle Livingston Logan Macon Macoun Macoupin Madison Marison Marshall McLean Menard Menard Mercer Montgomery Moultrie Peoria Perry Putnam Randolph	11 2 3 10 10 10 4 2 2 2 1 3 7,7 11 11 11 2 9	2,193 97 624 376 5,253 3,715 1,046 1,029 183 64 423 3,074 1,395 2,483 1,293 1,293	928,471 50,363 401,460 173,530 5,251,808 3,717,677 900,493 434,803 83,775 126,986 3,123,882 180,040 2,491,132 648,802 902,434	3 3 12 15 4 3 2 1 3 9 9	1,617 98 673 462 5,362 4,194 1,045 958 166 157 315 3,576 200 1,404 2,502 1,177 1,227	5,012,787 1,088,619 466,184 89,412 155,878 237,292 3,641,676 239,818 1,352,321 2,450,336	+1	$\begin{array}{c} -576 \\ +11 \\ +49 \\ +86 \\ +109 \\ +479 \\ -11 \\ -71 \\ -171 \\ -108 \\ +502 \\ +22 \\ +9 \\ +19 \\ -116 \\ -116 \end{array}$	$\begin{array}{c} -42,66\\ +15,03\\ +195,03\\ +195,04\\ +1,327,01\\ +1,295,11\\ +188,11\\ +31,31\\ +5,66\\ +28,88\\ -99,55\\ +517,77\\ +59,77\\ +157,33\\ -40,77\\ +63,73\\ +230,77\\ +2$
aline angamon Shelby Stark St. Clair	17 21 1 37	4,768 6,622 110 3,844 441	4,477,062 4,784,315 76,533 3,181,775 271,853	18 26 2 1 47 5	4,745 6,739 179 19 5,227 483	4,496,034 6,938,083 89,032 7,552 5,652,416 430,340		-23 $+117$ $+69$ $+19$ $+1,383$ $+42$	+18,9 +2,153,7 +12,4 +7,5 +2,470,6 +158,4
Varmilion. Vashington Vhite Vill Villiamson	10 3 1 2 30 2	2,786 556 60 364 8,502 463	2,473,696 603,088 27,151 124,444 7,880,259 185,083	13 3 1 1 1 35 2	3,039 645 95 150 9,241 332	3,137,051 756,950 105,645 70,462 9,634,680 201,598	+3 -1 +5	+253 +89 +35 -214 +739 -131	+153,8 +153,8 +78,4 -53,9 +1,754,4 +16,5

Table 14 is a list of the shipping mines, showing the name of the company, the number and location of the mines operated by each, the total output and the disposition of the product.

Table 14—Shipping or commercial collieries—distribution of output for year 1917.

						Dispositi	ion of outp	ut—tons.	
Number.	Name of operator.	No. of mines.	Location of mines.	Total output— all grades— tons.	Loaded on ears for shipment.	Sup- plied to locomo- tives at mines.	nios ond	Sold to local trade.	Con- sumed and wasted at the mine.
	All Shipping Mines	324		77,412,054	53,115,828	627,888	19,806,419	1,577,216	2,284,703
1	Old Ben C. Corp	6		5,085,532	4,309,910	6	602,497	30,460	142,659
	Old Ben C. Corp. Old Ben C. Corp		W. Frankfort Christopher	2,026,458 3,059,074			174,250 428,247	13,540 16,920	
2	Peabody C. Co	7		3,450,004	2,865,402	2,901	511,400	20,948	49,353
	Peabody C. Co Peabody C. Co Peabody C. Co Peabody C. Co Peabody C. Co	. 1	Kincaid Marion Stonington Westville Sherman	1,299,044 627,400 448,248 431,979 429,721	461,920 143,275 425,937		143,705 286,258	7,331 36 9,049 643 56	3,557 21,739 9,666 5,399 5,033
	Peabody C. Co	1	Pawnee	213,612		2,901	81,437	3,833	3,959
3	Superior Coal Co.	3	Gillespie	3,115,546			3,050,058	12,085	53,403

Table 14—Continued.

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						Disposit	ion of outp	ut—tons.	
Number.	Name of operator.	No. of mines.	Location of mines.	Total output— all grades— tons.	Loaded on cars for shipment.		nies and	Sold to local trade.	Consumed and wasted at the mine.
4	Consolidated C.C.	6	.,	3,053,308	490,850		2,399,051	1,003	162,404
	Consolidated C. C. Consolidated C. C. Consolidated C. C. Consolidated C. C. Consolidated C. C.	1	Mt. Olive Johnston City Collinsville Breese	1,453,279 610,040 458,043 437,247 94,699	6,440 393,855 90,555		1,364,520 589,531 445,000	1,003	88,759 20,509 5,600 43,392 4,144
5	Spfld. Dist. Coal Mining Co	7		2,299,248	1,053,423	3,689	1,058,660	129,175	54,301
	Spfld. Dist. Coal Mining Co Spfld. Dist. Coal	3	Springfield	830,479	389,517		334,842	87,243	18,877
	Mining Co Spfld. Dist. Coal	1	Riverton	500,517	176,678		307,568	5,596	10,675
	Mining Co Spfld. Dist. Coal		Auburn	454,700			211,328	2,397	7,878
	Mining Co Spfld. Dist. Coal	1		315,854	121,612		144,685	33,742	12,126
	Mining Co		Andrew	197,698	132,519		60,237	197	4,745
6	U. S. Fuel Co	5		2,161,112	1,470,216		635,742	22,719	32,435
	U. S. Fuel Co U. S. Fuel Co	4 1	Westville Benton	1,953,473 207,639	1,265,130 205,086		635,742	20,784 1,935	31,817 618
7	Madison C. Corp	4		2,160,232	369,123		1,721,183	13,607	56,319
	Madison C. Corp Madison C. Corp Madison C. Corp	1	Dewmaine Divernon Glen Carbon	1,047,033 726,319 386,880	369,123		1,017,262 703,921	4,669 5,630 3,308	25,102 16,768 14,449
8	O'Gara Coal Co	7		1,975,870	1,900,021			26,561	49,288
	O'Gara Coal Co O'Gara Coal Co	5 2	Harrisburg Eldorado	1,439,258 536,612	1,387,783 512,238			13,869 12,692	37,606 11,682
9	C., W. & F. C. C.	3		1,961,834	1,520,025		376,365	17,452	47,992
	C., W. & F. C. C. C., W. & F. C. C. C., W. & F. C. C.	1 1 1	Orient Thayer S. Wilm'ton	1,008,474 676,980 276,380	920,872 360,036 239,117		63,148 295,120 18,097	2,065 5,472 9,915	22,389 16,352 9,251
10	C. & E. I. C. Prop.	5		1,928,633	1,449,642		456,539	7,018	15,434
	C. & E. I. C. Prop. C. & E. I. C. Prop. C. & E. I. C. Prop. C. & E. I. C. Prop.	2 1 1	Witt Nokomis Hillsboro Taylor Spring	812,941 594,411 481,224 40,057	797,853 199,840 427,742 24,207		393,378 48,124 15,037	5,551 302 1,090 75	9,537 891 4,268 738
11	Donk Bros. Coal & Coke Co	3		1,674,885		1,625		8,086	34,542
	Donk Bros. Coal & Coke Co Donk Bros. Coal	1	Maryville	866,317	849,030	1,562		1,877	13,848
	& Coke Co Donk Bros. Coal	1	Collinsville	548,977	535,269	63		359	13,286
	& Coke Co	1	Troy	259,591	246,333			5,850	7,408
12	So. C., C. M. Co	5		1,391,372	1,194,082	545	140,575	14,138	42,032
	So. C., C. M. Co So. C., C. M. Co	4	Belleville New Baden	891,732 499,640	728,710 465,372	545	133,150 7,425	10,718 3,420	18,609 23,423

Table 14—Continued.

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						Disposition of output—tons.					
Number.	Name of operator.	No. of mines.	Location. of mines.	Total output— all grades— tons.	Loaded on cars for shipment.	Sup- plied to locomo- tives at mines.	nies and	Sold to local trade.	Consumed and wasted at the mine.		
13	Big Muddy Coal & Iron Co	4		1,306,876	938,289		255,015	7,301	106,271		
	Big Muddy Coal	1	Clifford	491,388	253,294		180,501	2,574	55,019		
	Big Muddy Coal	1	Herrin	481,278	365,583		74,514	4,727	36,454		
	Big Muddy Coal & Iron Co	2	Murphysboro	334,210	319,412				14,798		
	Bell & Zoler M. C. Mt.Olive& Staun-	1	Zeigler	1,065,359	1,000,493	1,085	13,724	2,468	47,589		
16	ton Coal Co W. P. Rend C. C.	2	Staunton	1,046,178	1,005,992	6,742		3,158	30,286		
10	Co	2		1,029,455	923,612		66,606	3,529	35,708		
	W. P. Rend C. C. Co. W. P. Rend C. C.	1	Herrin	702,304	611,993		66,606	1,565	22,140		
	Co	1	Rend	327,151	311,619			1,964	13,568		
18	St. L. & O'Fallon Coal Co Saline Co. C. Co New Staunton C,	2 3	E. St. Louis Harrisburg	1,027,475 985,302	988,793 749,361	11,272	211,000	798 3,200	26,612 21,741		
	Co Taylor M. Co Springvalley C. C.	1 4 3	Livingston Herrin	937,004 874,013 826,890	924,507 737,994 259,247	11,194	119,125 509,876	5,225 2,464 23,977	7,272 14,430 22,596		
	Springvalley C. C. Springvalley C. C.	2	Springvalley. Dalzell	590,561 236,329	259,247	11,194	281,644 228,232	22,114 1,863	16,362 6,234		
22 23	Chi. & C. C. Co St. Paul C. Co	2 2	Herrin	787,132 749,850	514,374 706,285	3,340	215,734	8,481 9,371	48,543 30,854		
	St. Paul C. Co St. Paul C. Co	1	Granville Cherry	427,562 322,288	406,437 299,848	3,340		4,540 4,831	13,245 17,609		
25	Centralia C. Co Shoal Creek C. Co. Montour C. Co	1 1 3	Centralia Panama	705,514 680,946 665,008	688,098 283,147 371,149	25	356,062 259,772	3,262 16,380	17,416 38,450 17,707		
	Montour C. Co Montour C. Co Montour C. Co	1 1 1	Girard Springfield Virden	318,578 219,513 126,917	134,661 171,011 65,477		166,316 38,700 54,756	11,694 2,419 2,267	5,907 7,383 4,417		
27 28	Johnston C. C. Co. Big Creek C. Co.	1 3	Johnston City	636,262 625,851	400,826 599,509	1,232	226,977	2,198	8,459 22,912		
	Big Creek C. Co Big Creek C. Co Big Creek C. Co	1 1 1	St. David Dunfermline. Cuba	300,127 207,007 118,717	288,593 196,978 113,938	1,232		847 1,351	11,534 9,182 2,196		
29	W. Frank. C. Co. Franklin C. & C.	1	W. Frankfort	624,714	549,391		58,323	5,000	12,000		
31	Co	2 1 2	Royalton Nokomis	619,944 605,868 600,709	580,312 586,834 70,679		509,572	3,623 4,557 2,080	36,009 14,477 18,378		
	Willis C. M. Co Willis C. M. Co	1 1	Willisville Percy	339,265 261,444	70,679		324,659 184,913	1,357 723	13,249 5,129		
33 34	By Products C. C. Wasson Coal Co	2 2	W. Frankfort.	565,694 560,906	550,505 505,573		49,325	360 1,000	14,829 5,008		
	Wasson C. Co Wasson C. Co	1	Wasson Carriers Mills.	384,555 176,351	357,197 148,376		21,750 27,575	600 400	5,008		
35	Majestic C. & C. C.	1	Duquoin	599,540	369,065		208,975	5,500	13,000		

Table 14—Continued.

						Dispositi	ion of outp	ut—tons.	
Number.	Name of operator.	No. of mines.	Location of mines.	Total output— all grades— tons.	Loaded on cars for shipment.		Sold to railroad compa- nies and loaded on cars.	Sold to local trade.	Con- sumed and wasted at the mine.
36 37	Marion Co. C. Co. Breese-Trenton	1	Glenridge	557,458	431,153		118,210	836	7,259
	Mining Co Security C. & M.	2	Breese	554,026	300,363	61,681	153,624	15,125	23,233
39	LaSalle Co. C. C.	1	Duquoin	550,261	528,545			784	20,932
40 41	Lumaghi C. Co Alden Coal Co	4 2 4	LaSalle Collinsville	528,522 520,759 513,638	274,341 350,577 253,647	20,202	139,301 163,619 245,065	71,167 2,402	23,511 6,563 12,524
	Alden Coat Co	2	Farmington Norris	283,896 127,839	141,271 60,442 51,934		136,497 60,226	694 1,708	5,434 5,463
	Alden Coal Co	î	Matherville	127,839 101,903			60,226 48,342		1,627
43	Royal Col. Co Kolb Coal Co	1 1 4	Sesser Virden	509,324 508,097 484,489	338,874 234,106 388,699	80,438	145,448 254,265	5,059 5,320	25,002 14,667 10,032
	Kolb Coal Co Kolb Coal Co	2 2	Mascoutah New Athens	371,982 112,507	307,956 80,743	52,649 27,789		5,320	6,057 3,975
45 46	Searls Coal Co	1	Duquoin Johnston City	483,483 464,313	391,891 403,718 334,914	41,302 50,000 1,540	32,591	5,698 4,415	12,001 6,180
47 48	Jones & Adams	1	Springfield Benton	450,455 440,864	334,914 415,786	1,540	100,881	15,078	10,000
49 50	T. G. Warden Chi. & Spfld. C. C. John A. Logan Coal Co	1	Herrin Springfield	395,070 347,523	415,786 344,222 346,323			2,678	48,170 1,200
51	John A. Logan Coal Co	1	Logan	344,116	273,672 335,515		65,553	3,000	1.891
52 53		1	Eldorado Springfield	341,344 330,339	254,854		62,685	5,500	5,829 7,300
54 55	Hillsboro C. Co	i	Hillsboro	328,839	202,444		101,148	15,382	9,865
	Co	2		326,435			301,259	1,847	23,329
	Western C. & M. Co Western C. & M.	1	Bush	281,402			258,771	1,847	20,784
	Co	1	Royalton	45,033			42,488		2,545
56	Star Coal Co	4		325,644			126,954	6,500	7.820
	Star Coal Co	2	Cuba Freeburg	185,390 103,254	72,180 94,190 18,000		109,754	6,500	3,456 2,564
57	Star Coal Co	1	Fiatt	37,000	18,000		17,200		1,800
58	Coal Co	1	Worden	324,295			210,163	4,102	3,904
	Coal Co Missionfield C.Co.	2 2	Harrisburg Oakwood	314,966	302,435 124,230 229,902 219,270 185,620	1,020	187 873	1,925	10,606
60	Prairie C. Co Citizens C. M. Co.	1	Belleville	307,188	229,902	400	187,873 74,086 61,835	300	2,500
61 62	Citizens C. M. Co. Chi. & Sand. C. C.	2	Springfield Sandoval	296,405 291,792	219,270 185,620		89,658	8,864 9,435	6,436 7,079 24,550 12,454 6,396
63	Llackson C. Co.	1	Hallidayboro.	287,228	195,600	44,584	18,513 127,033	3,981	24,550
64 65	West End C. Co.	1	Standard Springfield	284,973 283,673	238,026		127,033	9,435 3,981 11,150 39,251	6,396
66	B. F. Berry C. Co. West End C. Co. Penwell C. M. Co. Toluca C. Co	İ	Pana	314,900 313,123 307,188 296,405 291,792 287,228 284,973 283,673 282,521 281,638	195,600 134,336 238,026 228,897 17,999	23,935 74,189	168,973	16,886 8,301	12,803 12,176
68	C. Co	-	Toluca Marion	281,638	223,566		55,755	149	1,430
69	Silver Creek Col.	1	Farmington	279,708 278,229			95,092		4,501
70 71			Breese		ł		63,043		8,551
72 73	w. Virginia C. Co Smith-Lohr C. M.		Peoria Marion	273,315 273,067	273,315 108,377		159,040	2,000	3,650
10	Co	1	Pana	271,687	232,311			10,285	29,091

Table 14—Continued.

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						Dispositi	on of outp	ut—tons.		
Number.	Name of operator.		No. of mines.	Location. of mines.	Total output— all grades— tons.	Loaded on cars for shipment.		Sold to railroad compa- nies and loaded on cars.	Sold to local trade.	Consumed and wasted at the mine.
74 75	Mt. Olive C. Co Latham C. & M.	1	Mt. Olive	264,515	166,036	15,258	71,414	2,974	8,833	
76	St. Ellen C. Co Seranton B. M. C.		C'Fallon	256,642 256,544	226,887 37,420	348	215,062	23,055 106	6,700 3,608	
78	M. Co Big Muddy F. Co. International C.	1 1	Marion Johnston City	247,638 243,992	86,247 230,894		148,589 7,045	1,464 1,400	11,338 4,653	
80	& M. Co Illinois Fuel Co Lovington C. M.		O'Fallon Sparta	242,631 240,460	233,947 233,478		2,060	1,669	4,955 6,982	
82	Co Odin C. Co Ill. Third Vein C.	1	Lovington Odin	239,818 239,369	146,481		77,891	6,183 3,682	9,118 11,315	
84 85	Co	1	Ladd Peoria Herrin	233,997 232,594 226,882	51,926 160,094 203,438	24,175	134,091 65,300 11,737	7,268	7,200	
87	Hafer Washed C. Co Harrisburg Saline	1	Carterville	223,721				506	,	
88 89	M. E. Case C. Co. Groveland M. Co.	1 1		222,865 221,254 217,491	216,877 221,254 217,491			424	5,564	
90	Athens & Dawson C. Co	2		214,385			46,950	9,055	5,911	
	Athens & Dawson C. Co Athens & Dawson	1	Athens	155,878	99,547		46,950	6,270	3,111	
	C. Co	1	Dawson	58,507	52,922			2,785		
92 93	Taylor Col. Co Pratt Bros Oglesby Coal Co Springfield Co-op-	1	Benton Herrin Oglesby	206,636 201,331 197,584	194,850 61,209	1,166		900	5,581 11,871	
95 96	Springfield Co-op- erative C. Co Moffat C. Co Superior M. Co	1	Springfield Sparta Belleville	191,800 189,282 183,607	102,948		58,160 92,909 24,797	2.367	3,060	
97	Tuxhorn C. Co Mfgs & Cons. C. C. Citizens C. M. Co. Auburn & Alton		Springfield Decatur Lincoln	180,711	147.336		28,316	1,938 101,198 23,708	3,121 9,371	
101	C. Co Carlinville C. Co Monmouth C. Co.		Auburn Carlinville Brereton	175,344	91.128	4.092	55,376 61,867	7,312 19,639	3,000 5,109 5,676	
103 104	Wenona C. Co Eldnar C. Co Lineoln M. Co		Wenona Belleville	170,925 166,123	147.457			11,190	12,278	
106 107 108	Duncan C. Co Two Rivers C. C Williamson Co. C.	]		162,020 161,802 159,373	113,250 109,992	1,000	43,695 47,811	2,530	2,327 1,570	
109 110	Co		Johnston City Peoria Pickneyville	158,340	139,634 126,803 12,155	23,306	14,710 31,537 116,914	2,890	1,239	
112	National C. M. Co.		Belleville Farmington	156,356	151,453			2,100 276	2,803	
113 114 115	Ernest C. Co Spring Creek C. C.		Pekin Johnston City Springfield	146,627	97,143 143,412 138,962	458	38,934	6,147 637	4,403 1,602	
116	Carbon Hill C. Co. Simmons C. Co Coal Valley C. Co.		Danville	143,463 143,439 137,674 135,389	140,000 69,157 29,290	458	1,759 64,866 93,782	1,792	1,680	
	Coal Valley C. Co. Coal Valley C. Co.	1	Matherville	98,209 37,180	19,701 9,589	458	72,623		5,885 4,182	

Table 14—Continued.

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						Disposit	ion of outp	out—tons.	
Number.	Name of operator.	No. of mines.	Location of mines.	Total output— all grades— tons.	Loaded on cars for shipment.		nies and	Sold to local trade.	Con-sumed and wasted at the mine.
119	Maplewood Col.								
120 121 122 123	Roanoke Coal Co. Wilm. Star M. Co.	1 1 1 1 2	Roanoke Coal City Canton	132,053 132,811 129,884 128,085 126,169	124,275 34,974 110,413 81,070 112,182	9,795 11,445 7,095	71,633 8,177 28,204	804 8,879 6,938 5,861 2,156	6,974 7,530 4,356 1,505 4,736
育	Illinois Zinc Co Illinois Zinc Co	1	Peru Deer Park	72,645 53,524	61,669 50,513	7,095		1,534 622	2,347 2,389
125 126 127 128 129	Pana Coal Co Tilden Coal Co Logan Coal Co Mulberry H. C. C. Columbia C. Co Newsam Bros Jone Bros. C. M.	1 2 1 1 1 1	Hanna City Freeburg Belleville	123,005 122,720 118,466 118,109 116,635 110,587	78,678 62,466 114,169 113,235 92,518		118,544 39,507 53,600 14,560	1,348 1,250 700 340 1,585	3,113 3,285 2,400 3,240 3,060 1,924
	Co	1	Tilden	10,806	109,324				1,482
132 133	C. Co	1 1	Cambria Pocahontas	109,204 107,895	103,000 79,882		$^{1,004}_{20,000}$	4,013	5,200 4,000
134	CoSpoon River Col.	1	Norris City	105,645	51,394	3,196	40,215	7,644	3,196
135	Co. Egyptian C. & M.	1	London Mills.	102,239	66,521		31,707	1,011	3,000
136	Gartside Coal Co. New Enterprise	1 1	Marissa Murphysboro	100,836 99,687	$\frac{45,370}{62,951}$		49,267	30,136	6,199 6,600
	Coal Co Lincoln Park C. &	1	Marion	99,665	59,755		39,714	101	95
	B Co	1	Springfield	98,846	40,176			53,677	4,993
140 141	St. Louis & Car- terville Coal Co. Coffeen C. M. Co Warsaw Coal Co Victoria Coal Co.	1 1 1	Coulterville Coffeen Edwards	98,359 97,390 94,256 92,811	94,359 97,390 57,344 89,766		35,133	2,500	1,500 1,779
142	Victoria Coal Co. Federal Coal Co.	1	Belleville Carterville	92,811 89,324	89,766 87,293			1,395 47	1,650 1,984
144	Wilson Bros. C. C.	1	Sparta	81,946	55,023		26,628	. 1,105	2,190
	Sangamon C. M. Co	1	Springfield	84,313	84,313				
	& Mfg. Co	1	Moweaqua	83,908	66,085			11,281 12,340	6,542
147 148	Jones Bros. C. Co. Crown C. M. Co.	1	Marissa Craig	82,983 80,496 78,441 77,083	42,841 62,731 72,966		26,636 12,703	608	1,166 4,454
149	Crown C. M. Co. Maplewood C. Co. McLean Co. C. Co.	1	Farmington Bloomington.	78,441	72,966 3,000	10.565		55,260	5,475 8,258
151	Johnston City Washed C. Co	1	Whiteash	76,832	74,381			326	2,125 3,650
152 153	Decatur Coal Co Randolph Co. C.		Decatur	73,937	21,940			48,347	
	Co -		Coulterville	73,196	35,400		34,869	1,348	1,579
155	Wilm. C. M. & Mfg. Co Assumption C. &		Torino	70,462	62,702			4,160	3,600
156 157	M. Co Minonk Coal Co Sharon C. & B. C.	1 1 1	Assumption Minonk Georgetown	70,170 68,787 66,578	53,259 55,937 52,580			10,429 9,450 11,868	6,482 3,400 2,130
158	Genuine Norris C. M. Co		Norris	66,129	47,866		16,160	487	1,616
159	Gus Blair B. M. C.	1	Murphysboro	65,423	41,529		3,760	19,214 13,038	4,680
160 161	Aben Coal Co Golden Rule C. C.	1	Belleville Lenzburg	65,192 63,982 63,150	46,994 59,334		3,700	2,759	1,400 1,889
162	Fullerton Coal Co. Hickory Hill Coal		Belleville		00,555			876	1,441
	Colliers Co-oper-		Junction	62,829	61,381	1,208		240	935
	ative Coal Co	1	Bartonville	61,314	60,379				955

## Table 14—Continued.

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						Disposit	ion of outp	ut—tons.	
Number.	Name of operator.	No. of mines.	Location. of mines.	Total output— all grades— tons.	Loaded on ears for shipment.	Sup- plied to locomo- tives at mines.	Sold to railroad compa- nies and loaded on cars.	Sold to local trade.	Consumed and wasted at the mine.
166 167 168 169	Forsythe Coal Co. H. E. Miller. White Coal Co Northern Coal Co. Ridge C. M. Co Harrisburg Col.	1 1 1 1	Marissa Caseyville Belleville Millstadt Marion	57,526 55,456 55,104 54,896 54,584	51,247 51,946	1,320		2,079 238	1,648 1,500 700 250 2,400
171 172	Northern C. Co Danville Col. Co West Side C. M.	1	Harco Equality Catlin	54,385 53,316 51,988			31,136 3,395	968 432 578	3,198 3,000 5,220
174 175 176	Co	1	Coulterville Belleville Cutler	50,280 48,061 47,453	42,975 34,664 38,871	5,355	4,000	750 11,525 1,387	2,555 1,872 1,840
177	Summit C & M		Rentchler	47,143				576	1,200
178 179 180	Co New National City Coal Co Guest Coal Co Coal Creek M. Co. Durham Coal Co.	1 1 1	Belleville  .do Edwardsville. Belleville Fairview	47,096 44,222 43,317 42,875 41,930	46,426 40,916 18,972 40,729 41,930	5,426		91 2,211 15,024	579 1,095 3,895 2,146
182 183	Durham Coal Co. Murphy-Linskey Kasher C. Co	1	Galatia Pontiae	40,396					1,384
185 186	Collier Coal Co Nashville M. Co Oakdale C. & M.	. 1	Tamaroa Nashville	38,398 37,332 36,900	33,982 16,100	10,500		17,900 2,150 9,850	2,229 1,200 450
187	Madison Co. M.		Belleville	36,762				8,877	1,200
188 189 190	Groom Coal Co Bailey Bros Lenzburg C. Co Glendale C. & M.	1 1 1 1	Edwardsville. Belleville Sunfield Lenzburg	35,444 32,863 32,238 32,179	32,280 28,202 30,500 30,459	2,869		2,164 532 988 820	1,000 1,260 750 900
192	Co	1	Freeburg	31,405	30,559				846
193 194 195	Marion & Pitts- burg Coal Co Ubben Coal Co Mapleton C. Co Lake Erie C. & M.	1	Pittsburg Pekin Mapleton	30,162 29,000 28,454			8,000	17,800 200	1,750 1,200 254
196 197 198 199	Co	1 1 1	Peoria Mapleton Belleville Fairbury	27,883 27,619 27,022 27,000	5,109	10,722		450 12,256 4,904	4,175 235
200 201 202 203 204 205 206 207	Co. Soper Coal Co. Soper Coal Co. Jack Run C. Co. Abby Coal Corp. Peoples Coal Co. G. & J. Coal Co. No. 12 Coal Co. Eastside Coal Co. Henderson &	1 1 1 1 1 1	Kingston M's. Cutler Cantral Freeburg Collinsville Lebanon Seneca Springfield Edwardsville.	26,122 25,405 25,082 23,907 23,165 22,747 22,374 20,657 19,580	25,522 23,513 22,242 22,837 1,556 12,247 12,749 3,500 1,357	542	2,704	20,513 8,000 5,765 16,157 17,903	1,100 2,500 1,070 1,096 2,500 1,107 1,000 320
208 210 211	Wallace C. Co Ohio Fuel Co Kuhn Col. Co Acme Coal Co New Freeburg C.	1 1 1	Marion Grape Creek DuBois Sparland	17,718 16,448 14,536 13,621	17,718 16,448 13,653 10,400		3,100		
	Co	1	Freeburg Colfax Edinburg	12,794 12,329 11,638				948 1,670 7,538	500 1,346 1,100
216 217	Coal Co	1 1 1	DeSoto Rutland Belleville East Peoria Belleville	11,532 11,125 10,000 9,339 9,084	9,000 9,113 9,495 8,000 8,589			2,032 870 505 1,339 43	1,142 

Table 14—Concluded.

					Disposition of output—tons.				
Number.	Name of operator.	No. of mines.	Location. of mines.	Total output— all grades— tons.	Loaded on cars for shipment.	Sup- plied to locomo- tives at mines.	Sold to railroad compa- nies and loaded on cars.	Sold to local trade.	Consumed and wasted at the mine.
220	Lewis Coal Co		Marion	0.000					1
	Highee Coal Co	1	Wyoming	9,000 7,552				3,475	750
222	Ridge C. M. Co	î	Greenridge	6,517	6 254			3,413	252
	E. Lewis Coal Co.	î	Marion	6,000	6,000				202
	Tower Hill C, Co.	1	Tower Hill	5,124	3,511			346	1,267
	Niantic Min. Co.	1	Niantic	4,962	3,951			602	409
226	Beck-White Coal								
000	_Co	1	Edwardsville.	1,280	1,140				140
227	Enterprise Col.		Rentchler		000				30
228	Brady Branch C.	1	nememer	930	900				30
220	Co	1	Danville	650	650				
		_ ^		000	000				

Table 15 gives the total output of shipping mines by districts, the grades into which it is divided and the number of tons in each grade.

Table 15—Output of shipping mines by districts and of local mines for the state, showing the tons of different grades of coal.

	Total	Tons of different grades of coal.							
District.	output— tons.	Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.		
First Second Third Fourth Fitth Sixth Seventh Eighth Ninth Tenth Eleventh Trwelith	1,427,898 1,628,019 3,318,856 2,548,722 6,547,072 7,624,006 10,220,509 7,635,895 5,652,416 5,138,500 16,035,481 9,634,680	192,456 93,704 894,561 257,252 1,919,894 1,416,755 1,394,436 1,231,437 1,575,945 2,960,283 2,863,838	707,223 1,106,819 1,457,554 766,375 2,245,725 2,555,860 4,331,228 2,861,926 1,814,407 1,284,571 3,010,417 1,608,875	211,816 116,356 245,813 733,656 410,445 1,508,800 2,007,085 946,505 743,047 670,665 2,606,288 1,332,129	14,775 8,024 57,734 66,972 282,383 118,156 111,876 284,472 216,457 234,647 2,026,027 1,440,692	264,143 289,235 544,344 660,999 1,609,376 1,893,538 1,909,367 1,980,499 1,217,864 1,316,689 5,143,873 2,140,583	37,48; 13,88; 118,85; 63,46; 79,24; 130,89; 466,51; 330,66; 88,20; 55,98; 288,59; 284,56;		
Shipping mines Local mines	77,412,054 1,571,473	16,343,388 1,007,964	23,780,980 469,659	11,532,605	4,862,215 7,418	18,934,510 67,512	1,958,35 18,92		
Total	78,983,527	17,351,352	24,250,639	11,532,605	4,869,633	19,002,022	1,977,27		

Table 16. In this table is shown the number of counties containing mines, number of mines operated, number of employees and number of tons produced, each year—1890 to 1917.

Table 16—Output of the state for 28 years, and the number of mines and men producing the same—1890-1917.

1890			Nu	mber of—		Tons	of—	Percent	age of—
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Year.		Mines.	Men.	Tons.	Lump.		Lump.	Other grades.
891         57         918         32,951         15,660,698         12,960,224         2,700,474         82.76         12,882           892         55         389         33,632         17,862,276         14,730,963         31,31,313         82.47         18,893         56         788         35,390         19,949,564         16,112,899         3,836,665         80.77         17,113,766         13,865,284         3,248,292         81,802         18,805         54         855         38,630         17,735,864         14,045,962         3,689,902         79.25         2,902         39,785         369,902         79.25         2,9072,758         14,045,962         3,400,5417         73.10         2,807         30,809         29,2072,758         14,045,962         3,400,5417         73.10         2,809         32,288         33,788         30,991         23,434,445         17,427,508         6,006,847         74.37         2,118         3,900,447         74.37         3,900         32,290         33,938         3,921         3,978,899         11,226,030         44.63         3,000         3,932         3,932,999         3,927,899         11,226,030         44.63         3,000         3,000         3,000         3,000         3,000         3,000         3,000 </td <td>890</td> <td>57</td> <td>936</td> <td>28,574</td> <td>15,274,727</td> <td>12,638,364</td> <td></td> <td></td> <td>17. 2</td>	890	57	936	28,574	15,274,727	12,638,364			17. 2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							2,700,474	82, 76	17.2
\$893. 56 788 35,390 19,949,564 16,112,899 3,885,665 80.77 12,113,767 13,865,284 3,248,292 81.02 1885. 54 85 38,630 17,77 17,113,767 13,865,284 3,248,292 81.02 1885. 54 85 38,630 17,755,864 14,045,962 3,689,902 79.25 2896. 51 962 37,057 19,758,662 14,201,024 5,576,602 77,186 2897. 50 853 33,788 62 18,599,299 14,268,755 4,309,564 77,310 2898. 52 881 35,026 18,599,299 14,268,755 4,309,564 77,310 2899. 52 899 36,991 23,434,445 17,427,508 6,006,847 74,37 2900. 52 920 39,384 25,133,929 13,927,899 11,226,030 44,63 3,900. 52 920 39,384 25,133,929 13,921,192,1926,030 44,63 4,63 5,900. 52 990 39,384 25,133,929 13,921,1926,030 44,63 4,63 5,900. 52 990 39,384 25,133,929 13,921,1926,030 44,63 5,900. 53 991. 23,434,445 17,427,508 6,006,847 74,37 2901. 53 915 44,143 26,635,319 13,321,124 13,314,195 50.01 49,902 54 915 46,005 30,002,300 15,614,073 14,795,627 50,10 19,902 54 915 44,143 26,635,319 13,321,124 13,314,195 50.01 19,902 54 915 46,006 53 0,002,300 15,614,073 14,795,627 50,10 19,903 50,000 53 903 54,774 37,052,300 15,614,073 14,795,627 50,10 19,903 50,000 53 900 54,774 37,052,800 15,874,500 11,080,898 44,63 42,23 50,006 54 1,018 62,283 33,317,581 16,878,088 21,439,443 44,65 50,006 54 1,018 62,283 33,317,581 16,878,088 21,439,443 44,65 50,006 54 1,018 62,283 33,317,581 16,878,088 21,439,443 44,65 50,006 54 1,018 62,283 33,317,581 16,878,088 21,439,443 44,65 50,006 54 1,018 62,283 33,317,581 16,878,088 21,439,443 44,65 50,009 55 881 74,634 48,717,853 20,769,500 27,947,923 42,63 50,009 55 881 74,634 48,717,853 20,769,500 27,947,923 42,63 50,009 55 881 74,634 48,717,853 20,769,500 27,947,923 42,63 50,009 55 881 74,634 48,717,853 20,769,500 27,947,923 42,63 50,009 55 881 74,634 48,717,853 20,769,500 27,947,923 42,63 50,009 55 881 74,634 48,717,853 20,769,500 27,947,923 42,63 50,009 55 881 74,634 48,717,853 20,769,500 27,947,923 42,63 50,009 55 881 74,634 48,717,853 20,769,500 27,947,923 42,63 50,009 55 881 74,634 48,717,853 20,769,500 27,947,923 42,63 50,009 55 881 74,644 10,009,600 27,947,923 42,63 60,009 27,947,923 42,63	892	55	839	33,632	17,862,276				17.5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	893	56	788	35,390					19. 2
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	894								18.9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	895					14,045,962			20.7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	896	51		37,057					28.1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	897		853						26.9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	898		881	35,026					23. 6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		52							25. 6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	900	52				13,927,899			55.3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	901			44,143	26,635,319				49.9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	902			46,005	30,021,300	15,041,673			49.9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	903	53		49,814					54. 5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	904			54,774	37,077,897	16,888,010			54.4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	905	56			37,183,374				54.7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	906			62,283					55. 9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	907								56.9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	908								57. 0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	909								55.9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	910			74,634					57.3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		53		77,410					60.9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							35,718,713		62.
915									66.2
									63. 2
016   51   902   75 010   62 672 520   91 768 006   41 905 524   34 19   6	915				57,601,694	19,211,277			66.
	916	51	803	75,919	63,673,530	21,768,006	41,905,524	34. 19	65.8

Table 17 shows the number of mines, number of employees, number of tons mined and the increase or decrease each year for 36 years.

Table 17—Total number of mines, men and tons—1882 to 1917— WITH INCREASE OR DECREASE EACH YEAR.

	Coun-					Increase	е.		Decreas	e.
Year.	ties.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
882	42	704	20,290	11,017,653						1
883	47	639	23,939	12,123,456		2 040	1,105,803	C=		
384 385	49 50	741 778	25,575	12,208,075 11,834,459	102 37	1,636	84,619			070 07
886	50	787	25,940	11,175,241	9	3/1			100	650 21
387	49	801	26,804	12,423,066		958	1,105,805 84,619 1,247,825 1,905,115		100	005,21
388	50	822	29,410	14,328,181	21	2,606	1,905,115			
389	49	854	30,076	14,017,298	32	666	1,257,429 385,971 2,201,578 2,087,288	-:		310,88
390	57	936		15,274,727			1,257,429		1,502	
891	57 55	918 839	32,951	15,660,698 17,862,276		4,377 681	385,971	18		
393	56	788		19,949,564		1,758	2 087 288	51		
394	56	836	38,477	17,113,576	48	3,087	2,001,200	91		2.835.98
395	54	855	38,630	17,735,864	19		622,288 2,050,762 286,132 4,835,146			-,000,00
396	51	862	37,057	19,786,626	7		2,050,762		1,573	
97	50	853		20,072,758			286,132	48	3,269	
898	52 52	881 889		18,599,299 23,434,445	28 8		4 005 140	• • • • • • • • •		1,473,45
000	52	920	30,991	25,153,929		1,965 2,393	1,719,484			
001	53	915	44.143	26,635,319		4,759	1.481.390	5		
002	54	915		30,021,300		1,862	1,481,390 3,385,981			
03	53	933	49,814	34,955,400	18	3,809	4 934 100			
04	54	932	54,774	37,077,897		4,960	2,122,497 105,477	1		
05	56	990	59,230	37,183,374	58 28	4,456	105,477			
06	54 55	1,018	62,283	38,317,581 47,798,621	28	3,053 4,431	1,134,207 9,481,040			
07	54	922		49,272,452		4,431	1,473,831	80	• • • • • • • • • • • • • • • • • • • •	
09	55	886	72.733	49,163,710			1,410,001	36	• • • • • • • • • • • • • • • • • • • •	108,74
10	55	881		48,717,853		1,901		5		445,85
11	53	845	77,410	50,165,099		2.776	1,447,246	36		
12	52	879	79,411	57,514,240	34	2,001	7,349,141			
13	53	840	79,497	61,846,204		86	4,331,964	39		1,130,40
14	52 52	796 779		60,715,795 57,601,694		538		44	4 400	1,130,40 3,114,10
16	51	803	75,007	63,673,530	24	312	6,071,836	17	4,428	0,114,10
17	51	810	00,919	78,983,527	24	4 074	15,309,997		• • • • • • • • •	

### OUTPUT BY MONTHS.

Table 18 shows the working time and production each month of the year in the shipping mines.



TABLE 18—TOTAL OUTPUT AND NUMBER OF DAYS

==			Number	0	f days in o	ре	ration and	to	ons of coal	m	ined
.:	Name of operator.	_	July.		August.	S	eptember.		October.	N	ovember.
Number.		Days.	Tons.	Days.	Toms.	Days.	Tons.	Days.	Tons.	Days.	Tons.
	GRUNDY COUNTY-FIRST DISTRICT.										
$\frac{1}{2}$	Chi., Wilm & Frank. C. Co., No. 3 Wilm. Star Mining Co., No. 7	10 12	9,581 5,976	16 17	16,137 8,091	$\frac{20}{21}$	20,233 10,368	$\frac{23}{25}$	25,185 12,570	$\frac{24}{25}$	27,825 11,802
	Total and average	11	15,557	16	24,228	20	30,601	24	37,755	25	39,627
	LASALLE COUNTY—FIRST DISTRICT.										
5 6 7	LaSalle Co. Carbon Coal Co., No. 1 LaSalle Co. Carbon C. Co., Union. Illinois Zinc Co., No. 3 LaSalle Co. Carbon C. Co., LaSalle Illinois Zinc Co., No. 1	201		17 24 14 18 10 21	12,061 11,877 11,774 6,405 4,533 2,449 4,296	17 22 24 18 21 22	13,728 12,691 15,060 9,450 4,809 5,427 4,087	25 25 26 18 23 24	19,590 19,423 19,323 9,885 4,949 6,358 4,502	23 24 24 22 24 20	18,847 19,194 18,368 9,507 5,841 6,455 3,661
	G. & J. Coal Co., No. 1 Rutland Coal Co., No. 2	15	. 844	22	1,189	22	1,346	25	1,755	25	2,047
	Total and average	13	37,290	18	54,584	 21	06,598	21	85,785	23	83,920
	LIVINGSTON COUNTY-FIRST DISTRICT.										
1	Murphy, Linskey & Kasher C.Co										
-2	No. 1. Fairbury Coal Co., West	6 13	$_{1,428}^{507}$	13	1,656 1,696	$\frac{22}{24}$	2,503 1,938	25 24	3,497 2,175	$\frac{24}{26}$	3,651 2,070
	Total and average	10	1,935	15	3,352	23	4,441	25	5,672	25	5,721
	WILL COUNTY—FIRST DISTRICT.										
. 1	Wilm. C. Min. & Mfg. Co., No. 6	12	3,710	15	4,534	24	5,439	26	6,533	24	6,600
	The district	12	58,492	17	86,698	21	107,079	24	135,745	24	135,868
	BUREAU COUNTY-SECOND DISTRICT.										
4	St. Paul Coal Co., No. 2 Springvalley Coal Co., No. 3 Springvalley Coal Co., No. 1 Springvalley Coal Co., No. 5 Illinois Third Vein Coal Co., No. 1	20 18 6 15 14	27,548 21,314 6,808 14,509 12,662	15 16	33,672 17,416 18,428 9,393 13,140	$\frac{21}{20}$	29,360 24,969 22,520 15,947 12,939	22	28,746 28,985 23,659 21,154 23,153	25 25	24,183 29,291 30,530 23,216 23,173
	Total and average	15	82,841	16	92,049	19	105,735	21	125,697	24	130,393
	MERCER COUNTY-SECOND DISTRICT.										
1 2 3	Alden Coal Co., No. 7	15 15	3,408 1,548		3,418	11	5,813 3,678 2,591	24	7,658 12,824 3,003	24 25	7,427 13,728 3,571
	Total and average	15	4,956	21	5,285	20	12,082	24	23,485	24	24,726
	STARK COUNTY-SECOND DISTRICT.						}				
1	Higbee Coal Co									13	382
	The district	15	87,797	17	97,334	19	117,817	22	149,182	23	155,501
	MARSHALL COUNTY—THIRD DISTRICT.										
1 2 3	Toluca Coal Co., No. 1 Wenona Coal Co., No. 1 Acme Coal Co., No. 3	24 17	22,859 9,234	27 27	24,544 15,765	25 25 	24,419 15,178	25 25 	25,106 15,835	24 24	23,992 14,787
	Total and average	21	32,093	27	40,309	25	39,597	25	40,941	24	38,779

### WORKED EACH MONTH OF THE FISCAL YEAR.

			3	Nu	mber of da	ıys	in operat	io	n and tons	6 0.	f eoal min	ed.				
D	eeember.	J	anuary.	F	ebruary.	_	March.	_	April.	_	May.		June.		Total.	J.
Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Number.
23 24	25,692 11,631	25 25	28,020 11,971	24 24	26,914 11,476	26 27	28,467 12,502	19 24	18,519 10,616	26 25	25,664 11,449	23 26	24,143 11,432	259 275	276,380 129,884	1 2
24	37,323	25	39,991	24	38,390	27	40,969	22	29,135	26	37,113	25	35,575	267	406,264	
23 24 25 24 25 25 24 25 24	16,997 21,537 18,729 9,531 6,915 7,115 4,584 2,637	26 27 26 27	18,851 17,568 20,028 9,652 7,331 7,509 5,298 2,375	24 24 24 24 24	18,119 15,137 18,145 8,648 6,917 4,810 4,825 2,065	26 27 24 27	19,770 19,929 18,057 9,014 7,926 4,559 5,429 2,344 3,322	19 16 23 19 20 22 22	9,838 5,618 5,859 3,352 4,404 1,813	21 24 26 23 25 23 26	17,721 15,499 14,695 6,850 6,606 5,922 4,397 1,943 2,766	19 25 24 22 14 23 25	16,792 13,906 15,833 7,421 6,240 3,400 3,964 2,016 2,871	262 262 250 277 283	197,584 189,860 180,220 97,589 72,645 60,853 53,524 22,374 11,125	1 2 3 4 5 6 7 8
24	88,045	25	88,612	23	78,666	24	90,350	20	63,082	23	76,399	22	72,443	242	885,774	
25 14 20	3,916 2,187 6,103	15	4,483 2,848 7,331	22	4,166 2,750 6,916	26	4,206 2,649 6,855	26	3,159 1,974 5,133	20	3,383 2,663 6,046	26	3,271 2,622 5,893	249	38,398 27,000 65,398	1 2
25	6,969	26	7,448	24	6,713	27	6,679	24	4,845	26	5,146	26	5,846	279	70,462	1
24	138,440	25	143,382	23	130,685	== 25	144,853	21	102,195	23	124,704	23	119,757	=. 249	1,427,898	
24 24 24 24 25 —		26 26 26 26	24,841 31,815 29,157 25,988 23,755	24	23,729 28,667 22,451 22,495 22,421	25 25 25 —	31,099 30,256 23,717 23,720 23,187	21 21 21	18,990 18,418	26 22 23 —	26,793 18,619 19,313	21 22 —	23,199 27,065 26,234 18,207 18,159	256	322,288 321,954 268,607 236,329 233,997	1 2 3 4 5
24	131,013	25	135,556	23	119.763	25	131,979	20	95,233	24	120,052	23	112,864	259	1,383,175	
24 25 25	8,856 13,303 3,786	26 26 26	11,187 13,544 3,055	24 24 24	11,576 12,311 3,471	24 27 27	11,704 13,473 4,563	18 22 23	8,266 9,338 2,817	$\frac{24}{15}$ $\frac{26}{26}$	10,984 6,010 3,703	25 25	11,606 3,205	262 198 294	101,903 98,209 37,180	1 2 3
25	25,945	26	27,786	24	27,358	26	29,740	21	20,421	22	20,697	25	14,811	251	237,292	
23	1,029	25	1,130	23	1,377	19	1,028	17	547	21	1,071	20	988	161	7,552	1
24	157,987	26	164,472	24	148,498	25	162,747	22	116,201	23	141,820	23	128,663	245	1,628,019	
25 24	23,494 14,502	25 26 21	23,634 16,025 1,961	24	22,186 14,720 2,512	27	24,682 15,957 2,407	22	21,045 11,829 2,290	25	23,303 13,994 2,277	25 26 21	22,374 13,099 2,174	292	281,638 170,925 13,621	1 2 3
25	37,996	24	41,620	23	39,418	26	43,046	22	35,164	24	39,574	24	37,647	241	466,184	

											_		=
ined.	mi	ons of coal	d t	an	eration :	op	sin	of day	ber	Numb	_		
November.	N	October.	_	ber.	eptembe	s	st.	Augus	_	July.		Name of operator.	er.
Tons.	Days.	Tons.	Days.		Tons,	Days.		Tons.	Days.	Tons.	Days.	Name of operator.	Numb
												MENARD COUNTY—THIRD DISTRICT.	
15,093	22	16,610	24	,531	11,5	20	,621	10	20	4,678	8	1 Athen-Dawson Coal Co	1
												PEORIA COUNTY—THIRD DISTRICT.	
3 20,850 20,425 4 19,024 5 10,916 6 10,342 9,532 9,532 691 2,408	23 25 24 25 24 24 19 7	21,426 18,125 11,529 8,527 8,678 6,112 947 2,739	25 23 24 23 24 6 22	,815 ,233 ,546 ,000 856	13,4 21,4 11,5 11,1 5,8 5,2 5,5 1,0	19 24 21 23 24 16 24 10 9	,858 ,534 ,740 ,465 ,724 ,028 ,404 ,013 ,046 ,381 ,889	3 4 2 3 5 1 1	11 11 11 11 20	20,272 10,125 18,475 3,161 5,509 1,055 1,667 4,344 246 2,276 1,565	21 15 22 8 13 9 6 18 3 20	1 Wolschlag Co-operative Coal Co., 2 Clark Coal & Coke Co., No. 2. 3 M. E. Case Coal Co., B. & E L. Crescent Coal Co., No. 1. 5 Logan Coal Co., Co. 6 Newsam Bros., No. 4. 7 Warsaw Coal Co., No. 1. 9 Mapleton Coal Co., No. 1. 9 Mapleton Coal Co. 10 German Coal Co. 10 German Coal Co. 11 Lancaster L., C. & T. Co., No. 1.	1 2 3 4 5 6 7 8 9 10
	-		<u> </u>	,649 563	<u> </u>	_	,082		_		-	Total and average	
120,101		121,011		,000	101,0	10	,002			00,000	10	PUTNAM COUNTY—THIRD DISTRICT.	
34,431 28,474	$\frac{22}{24}$	39,289 27,202	$\frac{24}{25}$	,878 ,971	32,8 18,9	20 16	,902 ,752	39 14	24 13	27,170 10,415	17 10	1 St. Paul Coal Co., No. 1. 2 B. F. Berry Coal Co., No. 1.	$\frac{1}{2}$
62,905	23	66,491	25	,849	51,8	18	,654	54	18	37,585	14	Total and average	,
												TAZEWELL COUNTY—THIRD. • DISTRICT.	
1 2.476	22 24 25 24 13	2,451	24	,858 ,780 ,684 ,995	1.6	23	,956 ,070 ,645 ,863	1	15 24	7,011	16	1 Groveland Mining Co., No. 1. 2 Tazewell Coal Co. 3 Ubben Coal Co. 4 Lake Erie C. & M. Co. 5 Urbandale Coal Co.	2 3 4
34,667	27	39,293	25	,317	33,3	23	,534	30	21	24,512	19	Total and average	
												WOODFORD COUNTY—THIRD. DISTRICT.	
12,345 5,975	$\frac{25}{21}$	13,214 6,488	$\frac{26}{24}$	,333 ,580	11,3 5,5	$^{24}_{21}$	,570 ,953	11 5	$\frac{25}{22}$	8,208 4,161	19 15	1 Roanoke Coal Co	1 2
18,320	23	19,702	25	,913	16,9	22	,523	17	23	12,369	17	Total and average	
295,495	22	307,081	23	,770	254,7	21	,723	232	19	179,932	15		
												DISTRICT.	
10,144 13,704 8,301 15,181 11,538 13,068 12,330 12,533 14,934 10,547 7,073	24 16 23 24 25 24 25 23 24	13,266 15,507 13,038	23 22 21 25 26 25 26 25 26 25 23	,795 ,285 ,044 ,206	15,2 10,0 11,2 9,4 9,7 10,0 8,7 8,5	22 19 22 22 22 22 25 21 21	,576 ,754 ,731 ,561 ,925	11 4 12 4 5, 5	12 17 10 22 11 14 15	17,136 16,477 13,634 5,849 7,444 7,495 10,618 2,155 7,902 3,635 4,128 2,956 5,195 3,947	15 14 16 10 14 12 15 4 14 9 9 8 8	1 Big Creek Coal Co., No. 2. 2 Silver Creek Col. Co. 3 Big Creek Coal Co., No. 4. 4 Monmouth Coal Mining Co., No. 1. 5 Alden Coal Co., No. 8. 6 National Coal Mining Co. 7 Star Coal Co., No. 3. 8 Simmons Coal Co. 9 Maplewood Col. Co., No. 2. 10 Eagle Mining Co. 11 Alden Coal Co., No. 6. 12 Alden Coal Co., No. 5. 13 Big Creek Coal Co., No. 5. 14 Spoon River Col. Co. 15 Maplewood Col. Co., No. 5. 16 Special Co., No. 6. 17 Special Co., No. 6. 18 Displement Coal Co., No. 1. 18 Spoon River Col. Co. 16 Maplewood Coal Co., No. 1. 16 Genuline Norris C. M. Co.	1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16
23 22 22 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 25 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26	222222222222222222222222222222222222222	19,702 307,081 24,019 27,870 20,026 15,685 16,210 13,266 15,507 12,320 12,663 12,062 12,515 14,705 14,705	25 23 22 22 23 24 24 24 25 26 25 26 25 26 25 23	,913 ,770 ,413 ,140 ,123 ,974 ,114 ,795 ,285 ,044 ,206 ,499 ,757 ,502	16,9 254,7 22,4 23,1 17,1 13,9 13,1 12,7 15,2 10,0 11,0 9,7 10,0 8,7	22 = 21 21 21 21 22 22 22 23 22 22 22 22 22 22 22 22 22	,523 ,406 ,924 ,897 ,605 ,429 ,576 ,731 ,561 ,5925 ,678	222 177 157 7 88 66 111 14 4 4 5, 5,	19 19 14 19 14 12 17 10 22 11 14 15 	12,369	17 = 15	Total and average  The district  FULTON COUNTY—FOURTH DISTRICT.	

_			1	Nu	nber of d	ays	in operat	io	and tons	5 01	coal min	ed.				
D	ecember.	Ja	nuary.	F	ebruary.		March.		April.		May.		June.		Total.	÷
Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Number
23	15,924	24	14,971	22	14,828	19	12,790	17	10,693	24	15,375	24	12,764	247	155,878	1
25 24 24 24 23 25 25 21 13 21	24,982 21,612 19,439 17,361 10,641 12,505 10,502 5,798 1,496 2,460 1,968	26 25 26 25 26 26 26 24 15 22	24,519 25,198 20,202 18,484 11,909 14,208 12,056 5,319 1,700 2,719 1,583	24 23 24 23 26 24	22,787 23,385 17,920 15,265 10,567 12,339 10,071 5,020 4,352 3,202 1,931	25 27 21 25 24 25 23	22,423 26,255 19,780 13,801 11,998 10,726 10,085 5,269 4,429 2,833 2,454	22 21 19 20 25 19	19,567 18,604 12,598 8,524 9,228 8,822 5,783 4,694 4,575 2,406 2,249	24 26 26 26 25 20 23 22	21,676 21,118 16,669 13,770 10,339 12,161 8,325 4,824 4,089 2,710 2,680	24 26 24 26 24 19 25	19,584 19,705 15,081 15,789 9,990 12,059 8,920 4,753 3,883 1,629 2,849	283 257 263 260 248 256 188 228	273,315 232,594 221,254 158,340 118,466 110,587 94,256 61,314 28,454 27,619 26,122	1 2 3 4 5 6 7 8 9 10
22	128,764 38,775		137,897 39,152		126,839		130,053	23	97,050 34,374				114,242 29,052	270	1,352,321 427,562	1
24 25 	28,650 67,425	24	39,152 27,172 66,324	-	25,028	26	73,849	23	23,457	26	25,564	21	24,527	253	284,973 712,535	2
24 23 24 24 23	17,459 12,034 2,494 2,334 645	25 26	19,294 13,567 3,417 2,559 1,264	23	18,162 13,858 3,921 2,594 1,787			24 23 23 22	19,450 11,327 2,074 1,685				17,719 13,188 1,714 2,910 1,482	286 275 278 285 167	217,491 146,627 29,000 27,883 9,339	1 2 3 4 5
24	34,966	24	40,101	24	40,322	22	38,406	23	35,816	25	41,393	25	37,013	258	430,340	
$\frac{25}{20}$	12,074 6,070	26 25	12,093 6,625	24 22	11,195 5,907	26 23	11,628 6,106	24 16	9,346 4,673	25 22	10,345 5,911	26 23	9,460 5,338	295 254	132,811 68,787	1 2
23	18,144	26	18,718	23	17,102	-	17,734	20		=		25	14,798	==	201,598	
23	303,219		319,631	23	295,446		315,878	21				5 24	270,043		3,318,856	
24 24 23 24 24 23 23 23 24 23 25 25 25	24,961 30,620 19,371 16,878 15,670 13,859 12,561 14,054 9,699 12,187 12,039 11,584 15,918 9,904 6,648 5,573	24 26 26 25 26 25 26 25 26 25 26 25 26 25 26	30,866 30,666 21,285 16,995 17,128 17,058 13,832 18,557 11,845 14,356 14,115 12,042 14,747 8,687 6,948 8,925	24 24 24 24 23 23 24 24 24 24 24 24 24 24 24 24	12,812 13,810 11,097 13,263 13,620 12,042 14,237 8,947 5,655	25 25 24	13,279 9,473 6,708	20 12 20 22 12 12 16 16 16 18 23 24 25	13,260 8,998 10,255 11,358 7,148 11,208 10,492 7,862 7,862 7,121 9,394 8,703 7,097	24 24 25 26 25 25 25 25 25 25 25 25 25 25 25 25 25	12,489 14,366 10,200 14,327 13,060 10,733 10,473 10,473	1 24 1 24 1 26 2 24 1 20 5 25 7 18 3 25 7 18 3 25 7 18 7 23	15,295 14,638 14,048 11,421 11,726 9,442 7,885 10,720 11,005 2,273 3,948 6,689	258 260 263 251 251 252 278 251 252 251 251 252 261 272 272	150,074 147,278 137,674 132,053 128,085	10

=						_		==			
		_	Numl	er	of days in	op	eration an	d t	ons of coal	mi	ned.
er.	Name of operator.	_	July.		August.	s	eptember.		October.	N	November.
Number.		Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.
17	Coal Creek Mining Co Star Coal Co., No. 2	14	2,038	14	2,144	16	2,512	20	3,371 155	23	3,608 5,662
19	Star Coal Co., No. 1	20	2,162	25	2,935	24	3,308	26	3,736	24	3,303
	Total and average	12	110,671	16	144,757	22	198,929	22	232,882	23	241,290
	CHRISTIAN COUNTY—FIFTH DISTRICT.										
1	Peabody Coal Co., No. 7	23 20	64,296 44,599	22 20	70,982 47,509	16 23	47,943 53,918	23	67,066 49,458 37,478	24	63,568 45,169
3	Peabody Coal Co., No. 8. Peabody Coal Co., No. 21 Springfield Dist. C. M. Co.	8	13,983	24	43,100	25	45,165	23 21	37,478	24	40,611 32,676
5 6	Smith Lohr Coal Mining Co	16	11,594 17,256	14 16	20,523 15,842	18 23	26,100 24,243	17	19,294 24,039 26,598	18 21	
8	Pana Coal Co., No. 1 Assumption Coal Mining Co. Greenwood Coal Co.	13 11	5,663 938	17 10	5,773 739	23 21	7,390 1,354	$\frac{22}{21}$	6,526 1,357	17 21	5,443 1,204
	Total and average	14	158,329	18	204,468	21	206,113	22	231,816	21	237,676
	MACON COUNTY-FIFTH DISTRICT.										
2	Manufacturers & Consumers C. Co. Decatur Coal Co. Niantic Mining Co.	16 2	5,620 446	17 4	8,238 486	25 	15,365	26 10	$^{19,893}_{2,250}$	$\frac{25}{21}$	18,393 8,623
3	Total and average	9	6,066	11	8,724	95	15,365	10	22,143	22	27,026
	MOULTRIE COUNTY—FIFTH DISTRICT.		0,000	**	0,124	20	10,000	10	22,140	20	21,020
,	Lovington Coal Mining Co	20	14,605	22	14,540	0.4	10 150	0.5	01 710	0.4	00 100
1	SHELBY COUNTY—FIFTH DISTRICT.		14,003		14,040	24	18,150	20	21,718	24	22,192
		10	9, 400		<b>7</b> 000		0.000				
2	Moweaqua C. M. & Mfg. Co., No. 1 Tower Hill Coal Co		3,602		7,282		8,322	16	7,657	15	7,187
	Total and average	10	3,602	17	7,282	18	8,322	16	7,657	15	7,187
	VERMILION COUNTY—FIFTH DISTRICT.										
1 2	United States Fuel Co., Verm United States Fuel Co., No. 4 Peabody Coal Co., No. 24	$\frac{14}{12}$	49,659 34,384	15 13	53,228 38,543 17,725	19 18	62,791 52,961 22,800	$\frac{25}{25}$	84,774 74,044 37,522	23 25	74,760 69,054
3	Peabody Coal Co., No. 24. United States Fuel Co., No. 3. Missionfield Coal Co., No. 2. Two Rivers Coal Co., No. 4. Missionfield Coal Co., No. 6. Carbon Hill Coal Co., No. 5. Sharon Coal & Brick Co., No. 1. Danville Collieries Co.	9 15	3,061	20	17,725	20					32,849 21,228
5	Missionfield Coal Co., No. 2	10	8,273 8,897 10,939	24	10,927	24	10,165 9,066 11,332 8,134	24	15,575 13,301 12,802 11,268 7,019	24	15,630
7	Missionfield Coal Co., No. 3	23	10,939	23	9,222 12,218 8,217	23	11,332	23	12,802	23	18,833 12,847
- 8 9	Sharon Coal & Brick Co., No. 5	15 10	1.369	21	8,217 3,005	15 25			11,268 7,019	22 23	11,430 6,605
10	Danville Collieries Co. United States Fuel Co., Bunsen	24	2,713	26	3,503	24	5,985	26	7,126	25	6,375
12	Omo Fuel Co			-:						::	
13	Brady Branch Coal Co							••			
	Total and average	14	150,790	17	156,588	18	188,718	22	263,431	23	269,611
	The district	14	333,392	18	391,602	18	436,668	20	546,765	19	563,692
	LOGAN COUNTY-SIXTH DISTRICT.				100						
1 2 3	Latham Coal & Mining Co Citizens Coal & Mining Co Lincoln Mining Co., No. 1	10 14 8	4,781 6,402 5,627	19 19	14,331 10,011 7,850	25 25 23	23,601 16,123 16,203	25 23 23	23,595 15,357 16,472	25 24 22	25,278 18,481 16,783
3		11	16,810		32,192	-1	55,927	-1	55,424	-	60,542

Dε	ecember.	J	anuary.	F	ebruary.		March.		April.		May.		June.		Total.	
Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Manageman
3 3 4	3,481 5,795 3,056	26	4,126 6,313 3,415	22 21 24	3,862 5,053 2,986	24 25 27	4,975 5,493 3,602	21 24 23	3,877 3,883 2,494	118	4,532 2,936 3,053	18	3,404 2,822 2,950	181	41,930 38,112 37,000	]
4	243,858	25	271,907	23	247,587	23	245,531	19	177,241	24	238,889	22	195,180	247	2,548,722	
20 22 23 19 19 12 13 20 21	59,005 48,139 30,897 32,089 28,986 23,159 1,673 5,837 1,523	24 25 26 25 25	61,722 46,604 39,478 44,308 34,754 26,698 12,435 6,844 1,454	23 23 24	56,431 46,086 40,363 39,885 30,165 23,459 16,185 6,551 1,304	21 22 26	51,996 34,938 37,367 35,456 30,109 29,370 23,258 6,467 652	19 12 22 23 17	55,170 35,999 39,375 36,412 16,962 22,675 21,687 4,704 687	19 12 17 26 20	35,638 17,550 18,132	20 26 18	69,744 58,918 39,473 40,096 14,850 22,139 22,200 4,244 174	108	734,733 564,311 448,248 315,854 282,521 271,687 123,005 70,170 11,638	
20	231,308	22	274,297	22	260,429	21	249,613	18	233,671	19	262,609	19	271,838	222	2,822.167	
25 23	17,566 9,505	25 25	17,950 10,299	21 22	15,034 9,375	27 24	17,748 11,760	24 17	13,578 4,439	26 26 18	15,417 8,234 1,777	25 26 23	15,303 8,420 3,185	200	180,105 73,937 4,962	
24	27,071	25	28,259	27	24,409	26	29,508	21	18,117	23	25,428	25	26,908	241	259,004	
22	21,497	24	26,944	20	21,965	22	23,219	12	12,362	21	22,066	20	20,560	258	239,818	
2	7,347	18	9,765	19	9,186	18 26	8,373 582	11 23	5,143 666	10 26	5,255 962	9 25	4,789 2,914	173 100	83,908 5,124	
2	7,347	18	9,765	19	9,186	22	8,955	17	5,809	18	6,217	17	7,703	187	89,032	
23 23 23 24 24 24 23 15 24 24 	69,058 66,786 35,264 34,733 13,381 16,080 11,417 8,708 6,651 6,324	23 24 25 25 29 	16,137 12,154 16,037 6,960 5,558 2,026	24 24 24 24 22 22 22 22 22 27 24 4	06,887 44,598 38,697 17,098 12,773 12,403 15,075 6,486 4,464 2,676 493	25 27 25 25 24 23 24 20 26 27 15	83,581 69,438 53,212 38,778 17,615 12,703 12,804 18,305 6,005 4,791 5,767 3,188 326,188	21 23 22 24 24 23 22 20 14 21 	11,629 12,904 5,132	24 25 24 26 25 22 26 26 26 26 7 12	49,922 39,158 16,696 17,885 13,354 13,027 6,156 1,997 7,177 2,888 216	24 23 22 24 23 25 7 23 23	83,281 67,192 47,500 39,294 12,500 13,522 9,956 5,700 2,768 6,475 3,122 434 302,642	278 240 265 290 155 54 35	877,920 739,937 431,979 305,820 169,268 159,373 143,855 143,439 66,578 51,988 29,796 16,448 650 3,137,051	
3 25 24	23,482 19,075 18,023	26 25 24	28,577 18,962 18,693	24 24 19	27,479 19,145 14,639	27 26 20	27,262 18,292 16,140	22 17 14	21,204 11,494 10,438	21	13,093	20	16,029 11,414 13,132	263	256,642 177,849 162,020	
24	60,580	-		-1-		-	61,69	-	43,136	-	ļ	-	40,575	249	596,511	

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			Number	01	days in	ppe	ration and	l to	ons of coal	m	ined.
er.	Name of operator.		July.		August.	Se	ptember.	_	October.	N	ovember.
Number.		Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.
	MCLEAN COUNTY—SIXTH DISTRICT.										
$\frac{1}{2}$	McLean County Coal Co Colfax Coal Co	15	2,687	25	5,472	25	8,232	26 7	7,844 130	25 23	8,138 790
	Total and average	15	2,687	25	5,472	25	8,232	15	7,974	24	8,928
	SANGAMON COUNTY—SIXTH DISTRICT.										
1 22 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 26 26 26 26 27 26 26 26 27 26 26 26 27 26 27 26 27 26 27 26 27 26 27 26 27 27 27 27 27 27 27 27 27 27 27 27 27	Madison Coal Corp., No. 5. Chi, Wilm. & F. Coal Co., No. 1. Springfield Dist. C. M. Co., No. 2. Springfield Dist. C. M. Co., No. 2. Springfield Dist. C. M. Co., No. 4. Jones & Adams. Peabody Coal Co., No. 6. Chi. & Spfild. Coal Co., C. S. Wilcoxson Coal & Coke Co., No. 2. Springfield Dist. C. M. Co., No. 5. Springfield Dist. C. M. Co., No. 5. Springfield Dist. C. M. Co., No. 5. Citizens Coal Mining Co., B. Montour Coal Co., No. 400. Springfield Dist. C. M. Co., No. 1. Springfield Dist. C. M. Co., No. 1. Springfield Dist. C. M. Co., No. 1. Springfield Co-operative Coal Co. Tuxhorn Coal Co. Tuxhorn Coal Co. Spring Creek Coal Co. Lincoln Park Coal & Brick Co. Sangamon Coal Mining Co. Citizens Coal Mining Co., A Athens-Dawson Coal Co. Cantrall Coal Co. Number 12 Coal Go.	18 14 15 3 16 19 11 10 11 4	23,470 18,928 22,730 4,102 16,438 14,639 9,633 9,448 6,800 6,734 1,580	12 10 18 19 22 14 20 19 13 8 14 10	21,324 12,109 23,423 21,487 33,781 12,678 18,587 15,688 11,392 8,304 8,900 6,956 1,831	19 24 17 17 20 21 23 20 16 19 11 9 23 18	25,650 28,078 24,856 20,589 20,589 19,989 22,050 16,832 19,319 15,851 13,350 7,271 4,915 11,240	24 23 26 20 24 25 20 23 21 16 21 22 26 23 21 21 21 21 21 21	41,424 32,716 30,057 27,914 31,024 26,734 21,866 19,487 19,482 16,231 15,300 19,982 14,958 14,376 7,772	24 25 20 20 24 19 23 8 23 19 25 25 25 25 25 25 25	931 6,310 1,800
		=	211,100	-	303,525	=	482,284	=	. 582,784	=	625,337
	The district	12	236,906	16	341,189	20	546,443	22	646,182	22	694,807
1 23 3 4 5 6 7 8 9 10 11 12	DISTRICT.  Superior Coal Co., No. 3.  Superior Coal Co., No. 2.  Superior Coal Co., No. 2.  Superior Coal Co., No. 14.  Consolidated Coal Co., No. 17.  Consolidated Coal Co., No. 75.  Royal Colliery Co., No. 16.  Montour Coal Co., No. 403.  Montour Coal Co., No. 5.  Carlinville Coal Co.  Montour Coal Co., No. 402.  Ridge Coal Mining Co.  Total and average.  MONTGOMERY COUNTY—SEVENTH  DISTRICT.	22 23 9 9 18 14 12 16 	324,230	1 15 17 17 15 14 22 		20 17 18 22 10 19 20 16 	88,647 46,258 52,288 69,637 20,185 22,725 27,163 11,984	20 24 19 13 23 25 16 21 	66,332 74,034 50,772 34,098 49,015 31,714 22,026 15,985	21 23 23 23 16 21 	74,229 57,659 75,616 50,863 29,132 22,490 15,572 
1 2 3 4 5 6 7	C. & E. I. Coal Properties, No. 10. C. & E. I. Coal Properties, No. 11.	16 11 6 25 17	41,824 32,931 14,944 45,599 19,626	24	45.128	119	35.410		68,976 58,681 58,792 57,394 44,484 29,692	144	62,263 61,028 58,424 72,324 47,245 22,547

De	eeember.	J	January.	F	ebruary.		March.		April.		May.		June.		Total.
Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.
5 H	8,163 990	26 24	8,667 1,615	24 24	7,949 2,400	26 27	6,827 2,278	22 18	3,831 1,124	25 22	4,580 1,529		4,693 1,473	286 191	77,083 12,329
3	9,153	25	10,282	24	10,349	26	9,105	20	4,955	24	6,109	25	6,166	239	89,412
130235452232384040444042	65,561 58,120 37,148 37,726 44,238 47,000 33,141 28,698 26,782 22,365 19,140 18,841 20,396 19,979 18,300 19,297 11,558 3,557 5,521 7,102	25 26 26 26 26 26 26 26 26 27 26 26 26 26 26 26 26 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26	65,595 49,204 45,910 50,324 52,140 35,132 31,335 22,278 31,335 22,877 19,215 21,430 22,586 19,709 20,266 20,400 21,211 21,666 21,430 21,2744 6,770 9,167	21 24 24 24 24 24 22 23 22 21 23 23 22 24 24 24 22 24 24 22 24 24 22 24 24	45,230 30,761 27,835 25,856 31,925 28,018 19,757 18,298 31,945 21,433 17,775 17,900 20,587 11,338 16,155 7,954 8,338 5,515 2,300	26 20 26 23 26 24 26 22 25 23 23 15 22 25 25 26 22 25 26 21 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	80,230 68,641 40,912 43,341 50,200 31,957 32,552 24,779 30,000 26,167 19,537 20,748 22,776 18,988 15,005 19,181 21,304 11,488 9,361 11,219 8,628 7,770 4,506	222 223 16 24 17 222 21 22 21 22 21 22 21 23 16 24 17 22 22 21 22 21 21 21 21 21 21 21 21 21	69, 123 55, 1219 46, 506 41, 705 27, 554 44, 030 24, 170 26, 075 24, 286 25, 803 30, 436 13, 884 14, 219 17, 200 18, 660 17, 625 11, 181 4, 278 4, 278 6, 164 3, 609 6, 164 3, 609 6, 164 1, 530 1, 5	23 25 25 27 24 27 24 23 25 24 20 25 22 23 23 21 25 24 20 19 19 20 14	76, 427 60, 693 52, 116 49, 010 45, 995 30, 870 30, 976 31, 094 26, 198 32, 025 29, 110 20, 598 18, 529 38, 434 17, 757 19, 968 16, 800 19, 303 21, 31, 54 31, 31, 54 41, 54 54, 55 56 57, 56 57, 56 5	24 25 25 22 26 15 21 25 25 26 25 23 21 24 24 23 24 25 25 25 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	67,619 58,858 51,783 41,349 48,240 22,136 22,136 22,531 35,358 28,020 20,411 18,998 38,423 18,525 21,126 18,500 18,299 18,291 21,287 17,085 5,767 5,566 5,566 5,566	262 249 256 237 255 279 254 223 251 251 258 154 243 202 259 205 125 156 189 94 193	726,319 676,980 676,980 500,517 454,700 450,445 450,445 450,445 330,339 330,339 320,295 296,983 235,947 219,513 213,612 213,201 197,698 191,800 180,711 176,770 143,463 84,313 60,488 58,507 225,082 20,637
-	634,420 704,153	=	735,152 811,666	=	681,136 752,748	23 == 24	687,151 757,950	=	648,536	=	697,316 745,561	23 = 24	691,124 737,865	====	6,938,083 7,624,006
331	103,724 100,734 77,760 61,428 53,056 71,876 52,846 27,353 23,658 17,561 4,576	26 25 24 23 25 24 26 17 24 25 	112,278 112,837 103,982 76,339 66,430 88,791 56,870 25,140 17,480 19,627	21 19 22 23 24 22 22 17 19 20	84,133 90,258 74,583 73,308 72,314 84,809 50,976 26,886 25,320 12,106 616,936	22 21 17 22 19 21 26 14 23 24	95,104 96,524 81,492 57,888 65,730 69,061 46,265 30,626 21,590 15,840 21,004	17 22 20 19 12 22 23 11 19 23	82,445 72,395 83,905 68,043 55,931 44,629 49,265 26,767 17,669 14,568 20,404	21 22 18 6 25 12 18 25 14	114,644 104,530 93,180 70,995 63,558 65,618 10,689 27,509 17,197 15,099 23,382 1,425	25 26 25 22 21 23 22 20 21 24 24	102,829 105,799 93,174 83,999 57,780 75,542 48,784 24,900 26,127 17,140 20,988 5,092	249 238 239 239 177 233 264 186 244 150 38	1,158,796 1,071,283 885,467 760,643 692,636 610,040 508,997 318,578 264,515 175,344 126,917 6,517
	57,994 60,814 68,464	26 20	66,176 63,244 48,934 80,037	93	55,156 60,086 69,768 69,253 40,217	26	61,943 66,810 61,346 73,446	21	46,545 47,794 43,918 23,311		52,985 50,006 59,489 52,420	26 25	60,054 76,006 49,349 44,814	975	680,946 645,778 605,868 594,411

Table 18—

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			Numb	er	of days in	op	eration and	l t	ons of coal	mi	ned.
er.	Name of operator.	_	July.	_	August.	s	eptember.	_	October.	N	ovember.
Number.		Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.
8	Coffeen Coal Mining Co., No. 2 C. & E. I. Coal Properties, No. 15.									8	3,400
	Total and average	15	154,924	16	205,567	20	225,949	21	318,019	19	327,231
	The district	14	479,154	16	587,565	17	643,152	21	850,741	22	924,461
	BOND COUNTY-EIGHTH DISTRICT.										
1	Pocahontas Mining Co., No. 1	13	5,692	17	8,358	15	7,676	23	11,230	18	9,147
	CLINTON COUNTY—EIGHTH DISTRICT.										
1 2 3 4 5	Southern Coal Coke & M. Co., No. 9 Breese-Trenton M. Co., Buxton North Breese Coal M. Co., N. M Breese-Trenton Mining Co., E. B Consolidated Coal Co., W. M	13	27,289 19,629 14,238 20,329	16 11	49,868 24,873 18,590 21,375	18 18	45,157 27,601 29,745 20,332	18 19	43,284 29,274 30,094 22,731	18	19,027 29,387 29,142 18,869 12,756
	Total and average	14	81,485	17	114,706	14	122,835	15	125,383	19	109,181
	MADISON COUNTY—EIGHTH DISTRICT.										
3 4 5 6 7 8 9 10 11 12 13 14	New Staunton Coal Co., No. 1 Mt. Olive & Staunton C. Co., No. 2 Donk Bros. C. & C. Co., No. 2 Donk Bros. C. & C. Co., No. 2 Donk Bros. C. & C. Co., No. 1 Lumagh! Coal Co., No. 2 Madison Coal Corp., No. 2 Madison Coal Corp., No. 2 Madison Coal Corp., No. 2 Mt. Olive & Staunton C. Co., No. 1 Lumagh! Coal Co., No. 3 City Coal Co., No. 3 Madison Co. M. Co., H. T. Abbey Coal Corp., No. 1 East Side Coal Co. Beck White Coal Co., No. 1 Total and average  Marion County—Eighth	10 4 22 15  9 25 17 	52,184 46,770 70,408 25,143 5,954 23,034 13,255 	15 27 24 9 12 23 18  14 	45,999 56,262 75,174 38,262 20,211 18,021 24,309 20,274 1,516 723 301,277	20 24 25 17 16 24 23  25 13 	81,479 75,626 72,097 750,127 35,449 25,553 25,273 23,632 2,952 929 626 393,743	25 26 26 20 17 26 25 25 25 26 25	101,030 92,393 78,982 53,797 43,088 29,085 26,150 27,274 488 3,258 1,929 2,286	24 25 18 21 24 21 20 20 25 20 25 25 25	87,892 87,692 72,808 49,711 35,154 37,348 24,512 18,949 9,188 8,224 4,096 4,220 2,131 2,059
1 2 3 4	DISTRICT.  Marion County Coal Co., No. 1. Chicago-Sandoval Coal Co., No. 2. Odin Coal Co. Chicago-Sandoval Coal Co., No. 1. Total and average The district.	=	35,797 22,818 12,479 71,094 397,052	19 25  22	47;844 29,207 22,705 	22 =	42,586 25,494 22,186 90,266 614,520	17 25  21	49,220 20,287 22,848 92,355 688,728	22 20 =	48,030 17,781 16,724 82,535 644,847
	ST. CLAIR COUNTY-NINTH DISTRICT.										
4 5 6 7 8 9 10	St. Louis & O'Fallon C. Co., No. 2 Southern C. C. & M. Co., No. 8. Consolidated Coal Co., No. 17. Prairie Coal Co. Southern C. C. & M. Co., No. 7. Kolb Coal Co., No. 2. St. Ellen Coal Co. St. Louis & O'Fallon C. Co., No. 1 Superior Mining Co. Eldnar Coal Co. Suburban Coal & Mining Co. International C. & M. Co., Carbon	13 18  10 12 14	58,752 16,760 8,239 19,365 24,950 7,672 7,808 7,567 2,411	9 19  22 11 17	11,511 25,137 15,829 6,794 9,057	12 14 20 14 18  20 14 22	77,850 25,674 32,291 20,796 17,390 20,537 17,964 8,367 10,686 9,022	18 20 25 16 19  26 20 25		20 18 25 24 18 25	77,012 45,483 45,654 28,206 19,532 25,386 13,591 12,420 18,244 14,412 14,286 13,127

				Nu	mber of d	ays	in opera	tio	n and ton	s of	coal min	ed.				
De	ecember.	J	anuary.	F	ebruary.	1	March.		April.		May.		June.		Total.	Ť.
Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Number,
23	12,250	19	13,194	17	12,679	16	12,628	18 13	14,016 6,652	22 26	16,363 12,589	19 26	12,860 20,816	142 65	97,390 40,057	8
22	365,263	22	379,153	21	358,666	22	379,189	16	239,584	20	331,275	21	356,856	193	3,641,676	
21	959,835	23	1,091,277	19	970,295	19	980,313	18	775,605	20	939,101	22	1,019,010	203	10,220,509	
21	10,160	19	8,853	18	9,517	19	10,548	13	6,391	17	9,699	17	10,624	210	107,895	1
18 17 19 18 16	36,167 28,461 30,450 19,803 17,077	17 14 17	48,139 30,738 23,508 20,758 13,916	14 11 13	35,772 25,707 18,572 17,228 12,089	17 17 17	57,796 29,473 26,799 20,075 12,513	15 12 9	34,996 25,929 21,294 12,456 3,225	13 10	53,083 23,646 16,296 15,758 11,428	14	49,062 24,912 19,501 24,682 11,695	191 173 206	319,630 278,229	1 2 3 4 5
17	131,958	16	137,059	13	109,368	18	146,656	11	97,900	-	120,211	-		179	1,426,594	
22 22 24 24 22 24 24 24 22 25 22 25 26	85,444 79,242 70,675 49,583 40,794 39,853 27,650 23,086 17,599 13,663 5,804 4,515 3,046 2,110	25 26 20 24 24 25 20 26 24 26 26	20,830 16,046 6,112 5,171 3,009	23 24 24 15 23 22 23 18 15 15	33,329 38,368 26,478 23,076 19,607 12,833	23 25 24 24 26 27 16 22 14 25 27	97,762 72,703 69,230 52,798 51,380 39,493 30,872 24,408 17,562 19,684 2,899 4,962 1,896 1,498	22 10 23 23 23 10 12 9 21 24	66,469 65,225 70,789 44,266 22,418 36,512 26,122 21,659 9,400 10,606 1,300 4,399 1,478 1,512	21 23 25 14 23 25 19 24 16 22 21 26	72,925 76,488 52,266 30,367 40,914 30,406 20,156 24,025 13,596 4,377 4,137	255 256 256 256 256 256 256 256 256 256	82,036 60,293 49,828 32,633 31,256 19,591 26,086 14,898 4,411 3,793 5 2,900 6 1,921	5 252 5 291 5 271 9 195 8 233 9 288 1 263 6 152 9 148 2 236 5 175 6 304 7 252	901,881 866,317 548,977 410,721 386,880 324,295 259,591 144,297 110,038 43,317 35,444 23,165 19,580	9 10 11 12 13 14
23	463,064	23	478,328	21	445,572	22	487,147	18	382,468	21	460,125	22	458,548	219	5,012,787	
21 19 23	43,685 25,834 19,002	24	30,640	) 24	27,781	25	31,558	16	20,717	11	14,850 22,198	0 12 8 23	$ \begin{array}{c c} 14,728 \\ 21,278 \end{array} $	200	281,695 239,369	3 4
21	88,521	26	106,720	21	85,149	22	107,411	19	82.82	18	88,348	19	93,639	194	1,088,619	
22	693,703	22	730,96	19	649,600	3 22	751,762	17	569,58	19	678,380	20	692,660	207	7,635,895	
23 23 20 25 22 21 22 24 22 21 24 21 24	16,85 14,95	1 23 7 19 1 23 9 24 1 17 7 23 7 26 4 2- 8 23 5 24	55,77 43,79 8 29,53 2 28,87 21,14 38,72 27,43 11,24 17,24 13,40 15,66	5 22 4 16 1 23 4 19 7 16 7 2	50,720 39,006 5 32,613 9 25,960 18,04 1 36,693	0 24 6 21 5 22 0 23 4 16 8 26	53,227 52,434 16,165 28,400 17,539 35,821	21 10 5 25 0 19 0 15 1 25 1 25 1 25 1 25 1 25 1 25 2 22 2 22	45,830 24,96 41,23 23,61 14,31 35,33 20,59 217,97 14,78 12,52	5 24 1 14 5 25 8 23 0 17 8 23	53,843 34,003 5 35,04- 3 28,276 7 19,799 3 33,34	3 26 5 16 5 26 2 18 7 18 7 18 7 18 8 8 8 16 6 2	56,955 640,035 643,400 28,81- 21,275 830,396 26,35- 65,616 14,386 14,055	2 236 5 18 5 240 4 220 9 21- 5 18 4 189 0 246	518,496 317,247 317,188 317	2 3 4 5 6 7 7 9 9

TABLE 18—

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			Numb	er	of days in	op	eration and	l te	ons of coal	mi	ned.
.:	Name of operator.		July.		August.	s	eptember.		October.	N	ovember.
Number.	-	vs.	ls.	ys.	ls.	ys.	ls.	vs.	ls.	78.	S.
Z		Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons	Days.	Tons.
13	Mulberry Hill Coal Co	11	9,000 10,015	12	9,321	15	11,731	14	11,045	13	10,213
14	Columbia Coal Co., Royal	21	10,015	23	11,482	18	8,553	18	8,341 477	$\frac{20}{22}$	8,841 12,552
16	Kolb Coal Co., No. 1	27	10,500 6,762	28	9,201 11,088	28	8,434 7,560	29	6,140 5,796	29	6,009 4,788
18	Egyptian Coal & Mining Co	5	1,447	10	3.072	10	4.803	13	6.766	11	7,106
20	Southern C., C. & M. Co., No. 1	18	7,881		9,862		9,218	4	10,138 1,510 7,729	$\frac{21}{21}$	6,884 5,974
21 22	Kolb Coal Co., Fairbank	14 20	5,063 1,395	10	7,187 4,708	17	8,355 7,336	14			7,609 6,621
23	Aben Coal Co.	13	2,795	14	3,472	16	4,784	19	5,750	22	6,081
25	Fullerton Coal Co	17	2,795 2,896 3,561	22	8,136 5,155	15	4,784 6,008 3,986	13	4,979 3,773	18	5,492 5,292
26 27	Forsythe Coal Co	9 12	3,750 2,807	12	4,665 3,714	11	4,538	19	4,552 4,761	10	4,320 5,145
28	White Coal Co.	13	2,155	15	3,260	18	3,150 3,509 2,707	14	3,633	17	4,171
30	Pittsburgh Mining Co	11	5,595 990	10	3,629 980	15	2,707	$\frac{13}{24}$	4,617 4,517	25	2,392 4,464
31 32	White-Sergent Coal Co	iż	2.408	19	2.931	15	560	16	2,876 2,902	22	5,455 3,494
33	New National Coal Co	23	2,408 3,291	25	2,931 4,250	23	2,433 3,961	25	3,759	22	3,876
35	Oakdale Coal Mining Co.	19	2,731	i9	2,926	15	2,587	18	2,636	22	3,232
36 37	Groom Coal Co	14	1,385	10	964			18	891 474	20	2,881 3,163
38	Glendale Coal Co	;;	1.020	::	1 000	8	975	6	860.	- 8	1,085
40	Kolb Coal Co., V. H.	12	1,050		1,233	20	1,770	24	2,380		2,652
41 42	Jack Run Coal Co	9	1,026	20	2,252		2,400	8 21	940 2,480		1,400 2,420
43	New Freeburg Coal Co.			9	630	9	632		700	16	1,633 840
45	W. L. Scott Coal Co.		560								
46	Enterprise Collieries, No. 1	4	118	2	95	8	265	10	505	17	872
	International C. & M. Co., Taylor. Kolb Coal Co., No. 1. Star Coal Co., Star. Egyptian Coal & Mining Co. Victoria Coal Co. & M. Co., No. 1. Kolb Coal Co., Fairbank Jones Bros C. & M. Co., No. 1. Kolb Coal Co., Fairbank Jones Bros C. & M. Co., No. 1. Aben Coal Co. Golden Rule Coal Co. Fullerton Coal Co. Forsythe Coal Co. H. E. Miller, Ruby White Coal Co. Northern Coal Co. Northern Coal Co. Pittsburgh Mining Co. White-Sergent Coal Co. Summit Coal Co. Summit Coal Co. Coal & Mining Co. White-Sergent Coal Co. Coal Co. H. E. Willer, Ruby White Coal Co. Coal Co. Coal Co. Coal Mining Co. Coal Co. Coal Co. Coal Coal Coal Co. Coal Coal Coal Co. Coal Coal Coal Coal Coal Coal Coal Coal	13	242,705	15	293,941	16	354,962	14	426,238	10	474,310
	JACKSON COUNTY—TENTH DISTRICT.	10	212,100	10	200,011	10	001,002	1.1	420,200	10	111,010
,			10.004	10	04.040	10	00.000	10	04 409		02.004
2	Jackson Coal Co., M. V Big Muddy C. & I. Co., No. 9	$\frac{15}{21}$	19,004 30,815	23	24,946 34,789	18	23,089 25,259	19	24,403 23,180	14	26,094 21,363
3	Gartside Coal Co., No. 4	10	4.079	15	6.088	19	7,614 5,819	23	9,773	$\frac{24}{11}$	9,257
5	Gartside Coal Co., No. 4  Big Muddy C. & I. Co., No. 10  Gus Blair Big M. C. Co., No. 2  De Soto Peacock Coal Co., No. 1.	12	4,041	25	4,188 5,049	21	6,100	19	9,773 6,908 7,174	16	5,416 5,727
6		20	1,297		1,674	-	942	-	1,000	-	1,276
	Total and average	18	59,236	20	76,734	17	68,823	19	72,774	18	69,133
	PERRY COUNTY-TENTH DISTRICT.		`								
1	Majestic Coal & Coke Co	25	65,882	25	59,057	23	57,955 62,515	20	51,617	20	54,251 40,336
3	Paradise Coal Co	21	54,111 47,340 18,847	24	71,154 54,745 33,765	20	48,420	16	51,617 48,079 39,633 32,971	14	35,408
5	Ritchev Coal Co., No. 1	15 13			9.303	14	30,624 9,182	15	32,971 10,580	23 15	28,780 10,345
6	St. Louis Coulterville Coal Co	11	6,512	17	8,724 6,983	17	10,484 4,998	17	10,717 4,883	17	11,107 5,090
8	Wilson Coal Co., G. M.	16	6,512 7,787 2,299	20	3,283	20	3,214	23	5,146	24	5,764
9 10	Collier Coal Co., L. M. Bailey Bros Coal Co., Diamond	- 4	459	6	831	8	807 1,173	17 12	3,333 1,977	$\frac{20}{14}$	3,793 3,011
11	Paradise Coal Co.  Willis Coal A. Mining Co., No. 1.  Ritchey Coal Co., No. 1.  Ritchey Coal Co., No. 1.  St. Louis Coulterville Coal Co.  Crown Coal Mining Co., B. E.  Wilson Coal Co. G. M.  Collier Coal Co., L. M.  Balley Bros Coal Co., Diamond.  Soper Coal Co.			10		21	906	22	1,502	21	2,001
	Total and average		1211,746	18	248,356	19	230,278	18	210,438	18	199,886
	RANDOLPH COUNTY—TENTH DISTRICT.										
1	Willis Coal Mining Co., No. 6	10	14,276			9	10,158	15	17,087	23	26,177
2	Illinois Fuel Co., No. 4	21	17,790	24	19,862	23	18,537	25	21,365	24	20,033
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D	ecember.	J	anuary.	1	ebruary,	<u>.</u>	in operat	101	April,	5 01	May.	ea.	June.		Total.	
Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Number
100 222 277 233 119 233 117 112 234 113 115 114 233 118 116 22 22 24 111 23 115 116 22 21 218 117 218 218 218 218 218 218 218 218 218 218	8,924 9,171 16,232 16,020 14,704 17,175 5,902 8,306 8,154 6,773 4,595 4,595 4,595 4,495 5,795 4,350 4,350 4,350 2,931 3,064 1,461 3,064 1,178 1,800 2,170 1,401 1,050	20 13 29 15 15 21 21 23 17 12 20 13 17 18 14 25 19 19 19 19 19 19 19 19 19 19 19 19 19	11,601 8,837 12,231 8,343 8,343 7,276 11,018 8,905 7,755 6,300 6,390 4,136 5,405 5,216 5,347 4,37 4,437 8,490 3,108 3,10	26 14 11 20 23 16 11 22 16 17 18 21 15 24 18 20 20 12 23 21 16 17 18 21 16 17 18 21 16 17 18 18 21 16 16 17 16 16 17 16 16 16 16 16 16 16 16 16 16 16 16 16	10,418 10,680 12,222 10,160 1326 7,307 7,221 11,915 8,829 7,752 6,699 6,334 6,379 6,150 4,541 6,175 5,262 3,662 4,230 4,211 3,792 3,088 2,229 4,688 1,900 1,662 1,120 1,666 1,666 5,763 1,900 1,666	28 20 13 14 26 18 10 21 13 18 12 24 16 25 16 17 12 11 18 12 11 16 16 16 16 16 16 16 16 16 16 16 16	9,723 9,532 16,449 19,971 13,990 8,946 5,142 13,725 7,843 6,290 4,622 5,782 4,622 5,782 4,622 5,782 4,511 5,430 3,730 3,730 3,730 3,730 4,021 4,483 3,743 4,021 4,183 2,637 2,183 2,	29 20 19 18 23 14 18 9 12 13 14 12 13 14 15 16 11 17 11 11 11 11 11 11 11 11 11 11 11	8,316 7,861 13,412 11,095 13,824 14,308 6,706 12,493 5,627 9,931 4,688 5,333 4,685 5,236 4,879 4,607 5,246 2,931 3,035 3,411 4,438 1,919 4,879 3,482 1,414 1	29 14 19 24 15 24 9 9 16 11 12 13 25 14 12 17 16 16 19 18 14 21 17 17 10 10 10 10 10 10 10 10 10 10 10 10 10	8,965 10,559 119,269 12,990 12,990 15,502 15,376 8,029 13,285 6,132 13,302 13,302 13,302 13,302 13,302 13,302 13,302 13,302 13,302 13,400 15,005 15,005 16,102 17,1	22 21 21 25 15 7 21 11 17 12 19 18 15 23 21 17 20 16 21 19 18 18 19 18 19 18 19 19 19 19 19 19 19 19 19 19 19 19 19	2,389	129 338 201 157 245 192 210 151 165 210 2148 231 191 165 253 178 197 249 103 235 202 134 112 225 101 101 211 211 211 211 211 211 211 211	118, 109 116, 635 115, 307 112, 972 103, 224 100, 836 92, 811 91, 260 88, 224 582, 983 65, 192 63, 192 63, 192 64, 896 44, 896 44, 896 44, 262 42, 875 36, 762 32, 863 32, 179 31, 405 27, 022 24, 277 12, 794 10, 609 5, 652, 416	13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 33 33 34 40 41 42 44 44 45 47
21 12 23 15 21 22	26,246 18,175 8,851 7,522 7,152 1,058	9 25 15 18	32,827 16,291 9,418 8,066 7,565 1,223	12 18 11	25,903 19,742 6,980 5,747 5,747 943	9 25 20 14	26,025 16,620 10,309 10,091 4,681 821	7 23 21	21,083 10,712 9,063 11,023 3,358 409	10 26 22 12	19,341 17,302 9,129 11,361 3,735	25	18,267 12,217 9,126 11,604 5,094 553	256 184	287,228 246,465 99,687 87,745 65,423 11,532	1 2 3 4 5 6
19	69,004		75,390	15	65,062		68,547	16	55,648		60,868		56,861	203	798,080	
20 16 18 25 21 18 15 22 17 15 19	57,720 48,838 38,319 29,932 13,381 11,088 4,697 5,242 3,669 2,019	11 18 26 24 22 15 22 18 22	55,157 32,238 39,563 32,032 15,446 15,350 6,412 5,618 4,731 4,618 2,554	12 16 18 22 16 12 22 18 21	36,622 38,645 20,492 14,330 8,766 6,296 5,252	13 17 26 26	41,882 37,767 34,906 31,955 15,783 8,472 4,788 4,045 3,965 1,875	16 15 20 23 13 11 20 16 15	40,871 48,218 35,491 24,408 14,840 7,139 6,761 3,145 4,596 3,169 2,276	13 23 26 13 4 11 16	35,915 38,728 30,328 26,748 17,372 6,828 1,390 4,314 3,366 4,129	11 18 26 26 23 8 12 19	34,358 31,655 40,685 28,711 17,433 13,239 2,312 3,190 2,296 4,760	179 210 278 239 162 194 221 142 163	599,540 550,261 483,483 339,265 156,504 98,359 80,496 47,453 37,332 32,238 25,405	1 2 3 4 5 6 7 8 9 10
19 25 21	218,004 29,075 17,315	26	32.615		23,640 13,867	21	191,960 27,577 24,937		190,914 24,136 21,727		28,849 24,719		27,854 21,498	212	2,450,336 261,444 240,460	1 2

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			Numb	er	of days in	op	eration and	l to	ns of coal	mii	ned.
er.	Name of operator.		July.	_	August.	s	eptember.		October.	N	ovember.
Number		Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Toms.
3 4 5	Moffat Coal Co., No. 1 Jones Bros. C. & M. Co., No. 2 Wilson Bros. Coal Co., No. 7	22 15	17,588 8,329	24 19	20,066 10,418	12 14	8,768 10,235	16 12 6	12,852 11,027 1,223 6,197	11 12	7,934 9,884 3,328
6 7 8	Luden Coar Co., Crystal	7 24 8 8	3,777 8,342 1,909	22	4,998 7,653 5,981	24 17	5,016 8,428 5,044	$\frac{13}{24}$ $\frac{18}{18}$	6,197 6,305 4,845 2,128		4,499
ð	Total and average	-	73,529	-	70,988	-	3,131	-	83,029		3,960 86,939
	WASHINGTON COUNTY—TENTH DISTRICT.				·				,		,
1 2 3	Centralia Coal Co., No. 5. Nashville Mining Co. Kuhn Collieries Co.	14 15	36,209 2,460	20 16	50,618 2,500	19 15 2	51,065 2,210 148	21	67,802 3,500 1,767	24 20 16	61,053 3,000 1,897
	Total and average		38,669	18	53,118	18	53,423	-	73,069	-	65,950
	The district	= 15	383,180	19	449,196	16	421,841	17	439,310	17	421,908
	FRANKLIN COUNTY—ELEVENTH DISTRICT.										
2 3 4 5 6 7 8	Old Ben Coal Corp., No. S. Bell & Zoller Mining Co., No. 1. Chi, Wil. & F. C. Co., No. 1. Old Ben Coal Corp., No. 9. Old Ben Coal Corp., No. 9. Old Ben Coal Corp., No. 14. Old Ben Coal Corp., No. 14. Old Ben Coal Corp., No. 11. Old Ben Coal Corp., No. 10. Old Ben Coal Corp., No. 12. West Frankfort C. Co., No. 1. Franklin Coal & Coke Co., No. 1. Sesser Coal Co., No. 1. Benton Coal Co., No. 1. John A. Logan Coal Co. W. P. Rend Colliery Co. W. P. Rend Colliery Co. By Products Coke Corp., No. 18.	23 23 7 8 12 6 11 18	68,805 89,986 61,205 34,876 32,092 38,753 13,171 28,962 33,759	20 12 16 22 19 20 24	49,056 49,446 44,556	18 23 22 22 22	102,574 91,806 84,126 88,886 69,270 79,752 58,469 57,423 50,601	23 26 25 25 25	98,574 89,322 89,296 88,435 91,314 89,390 64,023 61,916 56,693	20 24 22 21 18	94,174 94,515 84,324 89,241 78,280 86,418 54,086 54,402 46,533
10 11 12 13 14 15 16 17 18	Franklin Coal & Coke Co., No. 1. Sesser Coal Co., No. 1. Benton Coal Co., No. 1. John A. Logan Coal Co. W. P. Rend Colliery Co. W. P. Rend Colliery Co. By Products Coke Corp., No. 18. By Products Coke Corp., No. 19. Taylor Mining Co., No. 5. United States Friel Co. Taylor Collieries Co., No. 6. 2. Franklin Coal & C. Co., No. 6. 2. Western Coal Mining Co., No. 2.	18 23 16 18 14 9 6	43,639 58,465 32,146 19,108 11,916 11,658 5,143	26 18 19 4 18 4 16	25,850 59,477 45,658 22,650 1,525 18,818 1,282 24,713 11,260	25 23 12 17	21,096 60,140 27,045 26,847 25,202 22,358 5,820 24,515 10,005	25 21 16 17	47,693 63,201 38,200 30,796 33,926 21,684 19,815 23,926 11,919	22 14 18 14	55,073 53,344 37,057 30,682 30,650 22,631 21,914 23,469 13,591
$\frac{19}{20}$	Taylor Collieries Co., No. 6. Franklin Coal & C. Co., No. 2 Western Coal Mining Co., No. 2	• •		•••		ii 10	2,768 462	24 18	11,963 4,135 1,855	$\frac{24}{20}$	21,000 6,093 1,981
	Total and average	_	583,684	17	794,208	19	909,165	21	1,038,631	20	999,458
	GALLATIN COUNTY—ELEVENTH DISTRICT.										
$\frac{1}{2}$	Hickory Hill Coal Co Northern Coal Co., No. 4	8	1,797	20	4,174	23	5,210	24	6,711	24 16	6,609 3,887
	Total and average	8	1,797	20	4,174	23	5,210	24	6,711	20	10,496
1	SALINE COUNTY—ELEVENTH DISTRICT. Saline County Coal Co., No. 3	18	41,623	17	40,629	15	31,873	18	38,353	14	33,160
2 3 4 5 6 7 8 9 10	Saline County Coal Co., No. 3. O'Gara Coal Co., No. 9. Wasson Coal Co., No. 1. O'Gara Coal Co., No. 1. O'Gara Coal Co., No. 10. J. Dering Coal Co., No. 10. J. Dering Coal Co., No. 3. O'Gara Coal Co., No. 1. Saline County Coal Co., No. 2. Saline County Coal Co., No. 6. Harrisburg Saline Col. Co., No. 15. O'Gara Coal Co., No. 8. Wasson Coal Co., No. 8.	18 18 25 12 18 14 17 6	37,804 40,574 41,113 35,826 22,229 34,133 21,433 21,629 6,448	17 27 27 27 15 9 17 16 16	40,779 39,731 39,596 35,547 25,662 14,299 28,809 19,272 20,537	15 16 21 22 15 14 16 16 8	32,615 36,350 31,124 26,931 25,979 23,782 24,990 15,442 9,809 8,357	15 16 21 24 16 17 18 16 9 18	35,492 34,820 32,952 33,336 26,229 30,855 29,484 16,347 9,914 10,807	13 11 19 19	31,054 21,800 24,026 24,390 20,227 18,253 18,335 15,226 12,894 17,608
12	Wasson Coal Co., No. 2	17	7,165	17	15,242	16	14,159	16	15,777	11	10,368

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De	cember.	J	anuary.		bruary.	_	March.		April.		May.		June.		Total.	
Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Number.
21 12 16 15 17 14 10	15,574 9,265 8,096 5,474 4,851 3,570 3,147	15 25 14 23 19	18,702 9,889 14,350 5,762 7,213 4,882 4,577	12 14 11 17	14,213 8,689 8,575 5,962 3,610 4,513 3,382	8 17 12 22	18,257 8,516 13,585 5,179 7,479 3,599 2,784	11 18 12 15	16,326 10,072 14,265 5,114 3,897 3,786	11 14 24 19 14	19,102 8,693 8,708 9,603 5,417 3,474 10,371	8 18 23 24 18	19,900 5,789 12,816 11,573 7,821 4,067 8,218	147 136 169 233 192	189,282 110,806 84,946 73,708 73,196 50,280 49,012	3 4 5 6 7 8 9
17	96,373	20	116,800	16	86,451	17	111,913	16	99,323	20	118,936	20	119,536	194	1,133,134	
23 20 15	58,460 3,216 2,238	22	64,771 3,625 2,808	22	60,002 3,817 461	27 15 8	66,357 2,300 714	18	58,930 3,075 1,607	20	- 69,169 3,215 1,477	21	61,078 3,982 1,419	225	705,514 36,900 14,536	1 2 3
20	63,914	22	71,204	16	64,280	20	69,371	18	63,612	25	73,861	19	66,479	207	756,950	
18	447,295	20	477,113	16	403,071	17	441,791	17	409,497	18	422,783	18	421,515	200	5,138,500	
20 19 21 17 19 20 24 20 18 21 23 16 16 23 21 24 15 16 20 21 24 15 16 20 21 21 21 21 21 21 21 21 21 21 21 21 21	\$4,075 \$1,455 \$1,455 \$0,926 72,176 60,65 75,647 49,747 49,802 56,913 37,057 21,947 22,521 14,565 20,929 6,965 2,224	19 25 20 25 11 24 25 22 22 22 1 19 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 24 25 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27	60,967 3,220 42,600 34,949 35,659 31,338 42,229 25,976 20,010 22,815	18 24 20 20 19 24 21 19 14 1 18 22 22 23 18 15 20 20 20 20 24 21 21 21 22 22 23 20 20 20 20 20 20 20 20 20 20 20 20 20	94,460 81,009 90,203 81,501 73,888 67,930 56,214 53,283 33,680 40,090 1,012 39,633 32,148 30,588 31,412 20,826 17,988 25,488 8,564 5,022 945,544	23 26 20 22 23 22 22 22 21 19 22 25 25 26 18 15 27 24 23 26	105,797 106,775 97,953 82,027 85,987 72,182 52,980 56,725 55,674 55,007 34,206 35,095 30,683 36,598 34,505 30,683 31,505 22,605 22,605 27,055 1,065,222	20 23 12 20 24 22 20 18 15 24 14 24 19 11 16 24 20 20 20 20 20 20 20 20 20 20 20 20 20	52,326 78,868 81,661 45,028 76,329 76,329 76,329 44,905 52,563 52,219 44,906 43,292 34,140 28,813 29,358 16,183 29,358 16,183 24,367 8,408 6,301	21 20 21 26 25 24 18 20 15 15 23 26 24 16 18 24 20 18 20 24 25 24 26 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26	91,076 87,672 88,557 67,573 60,460 59,338 45,781 33,300 37,205 37,556 34,310 22,148 24,698 27,479 4,936	21 24 26 21 22 23 26 15 21 24 23 23 18 24 21	98, 863 71, 555 77, 943 91, 605 79, 134 77, 547 67, 658 63, 036 60, 795 48, 060 36, 379 28, 288 36, 332 22, 629 24, 002 27, 631 26, 501 1, 065 9, 659 1, 046, 491	249 272 203 233 254 261 252 241 209 236 195 259 251 176 193 217 196 184 190	1,093,317 1,065,474 933,141 891,882 869,504 656,261 641,427 624,771 4555,505 509,324 440,864 334,116 227,151 2296,033 269,641 267,177 207,639 45,033 11,317,657	1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
20 24	4,081 6,040	24	6,423 8,419	3 23 24	5,707 7,119	24 23	5,536 5,866	22 25	5,260 6,773	24 24	6,191 7,210	23 25	5,131 8,002	259 186	62,829 53,316	1 2
22	10,121	25	14,842	2 24	12,826	24	11,402	24	12,033	24	13,401	24	13,133	223	116,145	
17 17 17 20 24 18 8 17 22 17 25 16	40,017 37,695 32,647 28,736 30,865 29,670 25,555 24,545 21,896 18,15- 22,642 13,12	5 17 7 17 6 20 8 23 9 19 9 22 4 17	39,23; 34,75; 0 30,80; 3 30,69; 33,34; 7 27,43; 7 24,75; 2 22,25; 7 20,53	9 16 9 12 1 17 8 19 6 21 4 13 5 12 5 23 5 12 0 24	22,97	9 22 3 14 4 15 9 25 3 15	26,040 34,888 20,880 16,544 24,132 19,053	10 15 14 16 15 23 12 18 20 18	21,538 22,999 20,467 18,897 22,221 33,242 12,537 16,878 33,513 16,476	19 19 19 18 12 12 12 12 14 18 18 18 18 18 18 18 18 18 18 18 18 18	9 40,763 9 33,611 23,235 0 26,439 1 32,762 4 36,408 18,634 4 21,632	24 22 5 18 6 20 2 21 8 20 1 25 1 25 1 25	47,875 38,794 24,165 25,186 32,322 30,732 21,180 20,823 31,144 21,872	206 194 239 259 207 2189 188 243 183	494,528 458,934 384,555 348,543 341,68 341,344 316,731 255,623 235,151 222,865 194,932 176,351	3 4 5 6 7 8 9

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			Numbe	r o	f days in	op	eration an	d t	ons of coa	l r	nined.
ï.	Name of operator.		July.		August.	s	eptember.		October.	1	November.
Number.		Davs.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.
13 14 15 16	Harrisburg Big. M. Coal Co., No. 12 O'Gara Coal Co., No. 4 O'Gara Coal Co., No. 3 Harrisburg Big. M. C. Co., No. 14 Harrisburg Colliery Co. Durham Coal Co., No. 1	2		13	10,236	15 11 5 17	13,807 5,875 5,423 14,935	16	14.156	13	12,694 11.089
17 18	Harrisburg Colliery Co Durham Coal Co., No. 1	ii	1,639	14	1,918	22	3,815	1		22	3,897
	Total and average	. 18	311,616			15	325,266	17			
	WHITE COUNTY—ELEVENTH DISTRICT.										
1	White County M. & P. Co	120		:=		=	6,064	=		: =:	
	The district	14	898,101	16	1,133,50	17	1,245,705	19	1,432,143	18	1,318,805
	WILLIAMSON COUNTY—TWELFTH DISTRICT.										
2 3 4 5 6 7 8 9 10 11 12 13 14	W. P. Rend C. & C. Co., No. 2. Johnston City Coal Co., No. 1. Peabody Coal Co., No. 3. Madison Coal Co., No. 3. Madison Coal Corp., No. 9. Madison Coal Corp., No. 9. Madison Coal Corp., No. 9. Mag. Minddy C. & I. Co., No. 8. Mag. Minddy C. & I. Co., No. 7. Searls Coal Co., McC. Consolidated Coal Co., L. C. T. G. Warden, No. 1. Western C. & M. Co., No. 1. Chi. & Big. M. C. & C. Co., No. 1. Chi. & Garterville C. Co., No. 1. Taylor Mining Co., No. 2. West Virginia Coal Co., No. 1. Maj. Minddy G. M. C. M. Co. Big Muddy Fuel Co., No. 1. Mafer Washed Coal Co., No. 1. Mafer Washed Coal Co., No. 1. Maj. Minddy Coal Co., No. 1. Taylor Mining Co., No. 1. Taylor Mining Co., No. 3. Ternest Coal Co., No. 1. Taylor Mining Co., No. 3. Cartervill Big Muddy Coal Co. New Enterprise Coal Co. New Enterprise Coal Co. New Enterprise Coal Co., No. 1. Federal Coal Co., No. 2.	21 15 13 16 13 16 11 19 12 10	40,166 36,063 32,168 33,446 47,088 30,378 29,850 16,689 23,649 11,682 17,652	16 23 10 24 25 14 14 17 17 15 26 22 9	40,442 59,512 24,203 51,281 47,585 27,909 26,596 25,283 31,979 23,554 31,404 24,724 13,508	22 22 21 17 23 22 17 18 18 21 24 21 14 17 19 23 17 18 11 18 15 11	58,895 54,972 49,477 41,800 46,649 46,953 34,812 35,016 44,885 41,512 30,419 24,656 22,055 21,009 20,002 20,107 16,229 20,882 22,789 11,580 13,889 13,789 8,396 2,557	24 26 23 24 20 22 22 16 17 24 20 25 15	58,064 60,477 52,440 49,655 45,420 43,702 43,795 38,194 35,261 38,950 24,951 25,650 23,171	24 24 22 22 23 20 16 18 23 20 23 19	59, 291 55, 409 49, 270 46, 049 43, 798 40, 410 39, 486 37, 142 38, 058 40, 541 23, 742 23, 686 29, 706
28 29 30	Federal Coal Co., No. 25  Johnston City, Washed Coal Co., White Ash		5,490		6,171	13	9,586	18	8,063	10 25	10,1 0 3,691 5,075
32 33	White Ash. Ridge Coal Mining Co., No 2 Marion & Pittsburg Coal Co., No. 2 Henderson Wallace Coal Co., H H Lewis Coal Co.		5,710	21	6,956	14	4,141	16	5,216		4,968
34 35	Lewis Coal Co. E. Lewis Coal Co.	22 15	800 320	23 15	1,200 310	16 20	600 730	21 22	700 600	$\frac{15}{21}$	400 500
	Total and average	15	527,632	18	658,712	14	741,714	20	827,120	19	797,821

# Concluded.

Do	cember.	J	anuary.	F	ebruary.		March,		April.		May.		June.		Total.	,
Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	
18 17 16 16 7	13,494 15,392 12,922 14,291 381 4,341	17 15 17	13,016 15,424 11,810 16,209 4,833 5,381	16 13 12 23	10,314 14,074 10,407 11,050 6,014 4,885	$\frac{27}{24}$ $\frac{14}{26}$	19,098 26,272 22,770 12,784 9,751 4,081	20 21 12 24	17,631 16,571 20,310 10,541 9,206 4,821	$\frac{24}{26}$ $\frac{19}{27}$	23,065 19,192 24,721 18,648 12,088 1,525	25 21 19 26	19,970 20,731 21,809 18,509 12,110	188 169 155 159	171,576 160,381 154,669 143,390 54,385 40,396	
17	386,376	19	415,010	16	348,192	20	423,511	17	347,960	21	462,664	21	464,770	199	4,496,034	
16	8,464	14	8,426	16	8,935	25	13,900	20	10,876	26	13,797	23	14,078	211	105,645	
19	1,361,826	20	1,505,501	18	1,315,497	21	1,514,035	18	1,230,474	21	1,541,423	22	1,538,472	215	16,035,481	
18 22 25 24 20 23 23 24 22 21 21 23 23 18 22 22 21 21 21 21 21 22 22 20 18 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	51,116 58,460 53,507 50,685 35,039 40,781 40,884 42,422 42,424 42,46,46] 46,46] 46,46] 46,46] 47,787 24,478 23,499 21,737 24,478 23,499 21,403 14,594 21,403 14,594 13,232 3,833 7,561 8,237	25 26 26 23 25 25 24 19 26 23 20 20 25 21 23 16 17 22 19 18 19 18 14 14	30,61: 25,700 28,88 25,85: 24,59 23,68: 21,84: 19,477 23,39: 16,600 17,87: 16,55: 9,800 8,18: 9,300	24 24 25 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	55,033 55,137 50,348 36,324 39,088 41,37 40,759 44,033 47,433 33,483 21,706 20,324 20,324 19,836 20,273 26,382 17,710 12,662 13,503 14,172 22,030 14,172 12,664 10,673	25 27 27 17 17 27 19 17 22 21 25 21 16 17 19 15 27 16 14 20 19 17 18 13 22 11 13 22 11 13 22 14 20 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	35,662 22,093 23,903 25,553 19,079 26,119 20,506 17,603 19,502 21,082 18,905 17,833 14,538 14,538 14,538 14,536 14,506 13,066	200 144 233 177 188 233 177 144 177 153 153 200 177 111 133 142 144 154 144 154 111 188	49,084 29,108 45,932 41,082 38,445 43,754 43,754 35,344 35,344 37,590 37,590 11,592 11,592 11,592 16,217 14,379 12,871 15,528 16,917 14,379 12,871 15,528 16,917 14,379 12,871 15,528	22 22 25 19 22 26 21 16 23 24 26 25 12 11 12 17 12 14 16 14 18 13 15	51,974 46,881 42,718 435,000 51,9020 5	21 23 26 20 21 25 22 13 25 26 26 27 23 26 26 27 28 28 29 20 21 21 22 23 25 26 26 26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	44,954 54,234 51,276 54,234 51,276 44,972 44,376 44,133 42,556 29,527 37,603 29,403 21,793 21,793 21,793 21,793 21,793 21,793 21,793 21,793 21,793 21,712 23,981 21,712 23,981 21,712 21,985 21,173 21,171 21,181 21,712 21,181 21,712 21,181 21,713 21,712 21,181 21,713 21	266 270 259 243 234 262 244 194 215 242 278 225 242 247 170 162 200 162 183 195 163 111 169	482,079 481,278 464,313 395,070 281,402 280,900 277,823 273,067 247,638 243,922 226,882 223,721 201,331 196,337 161,802 158,746 145,651 132,476 199,665 89,324 76,882	The state of the s
24 19 2 16 12	7,084 6,771 585 600 550	14 18 21 13	3,30 4,08 2,59 50	1 15 5 18	4,160 4,837 2,806 600	19 18 15 20	4,400 6,012 3,304 800	18 15 21	1,678 5,947 2,891 800	16 18 17 24	4,754 5,051 3,354 1,200	11 18 13 18	2,520 3,645 2,764 800	188	54,584	

Table 19 shows by districts the average days worked and the ton

Table 19—Tons produced and the average

				1		Νι	ım	ber of days	in	operation
District,		July.		August.	s	eptember.		October.	N	ovember.
	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Toms.
First second Third Fourth Fifth sixth seventh Lighth With Lighth Winth	12 14 15 13 15	236,906 479,154 397,052 242,705 383,180 898,101	17 19 16 18 16 18 15 19	86,698 97,334 232,723 144,757 391,602 341,189 587,565 524,097 293,941 449,196 1,133,500	19 21 22 18 20 17 20 16 16 17	117,817 254,770 198,929 436,668 546,443 643,152 614,520 354,962 421,841 1,245,705	22 23 22 20 22 21 21 14 17 19	135,745 149,182 307,981 232,882 546,765 646,182 850,741 688,728 426,238 439,310 1,432,143	23 22 23 19 22 22 20 19 17 18	155,50 295,49 241,29 563,69 694,80 924,46 644,84 474,31 421,90 1,318,80
'welfth The State	15	527,532 3,934,914	-1	658,712 4,941,314			-1		<u></u> i	6,668,80

nage produced each month.

# NUMBER OF DAYS WORKED EACH MONTH, BY DISTRICTS.

De	cember.	J	anuary.	F	ebruary.		March.		April.		May.		June.		Total.
Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.	Days.	Tons.
4 4 3	138,440 157,987 303,219	26	143,382 164,472 319,631	24	130,685 148,498 295,446	25	162,747	22	116,201	23	141,820	23	128,663	245	
3	243,858 555,625 704,153	22 25	271,907 652,597	23 20 23	247,587 614,043 752,748	23 21 24	245,531 637,480 757,950	19 18 20	177,241 541,939 648,536	24 21 23	238,889 643,637 745,561	22 21 24	195,180 629,652 737,865	$247 \\ 211 \\ 227$	2,548,722 6,547,092 7,624,006 10,220,509
	693,703 544,480 447,295	22 19 20	730,960 568,305 477,113	19 18 16	649,606 548,820 403,071	22 18 17	751,762 560,723 441,791	17 17 17	569,580 512,114 409,497	19 18 18	678,380 558,217 422,783	20 18 18	692,660 567,601 421,515	207 188 200	7,635,875 5,652,416 5,138,500
)	840,190	20	973,031	18	851,214	16	901,818	17	774,570	17	870,490	19	870,468	205	16,035,481 9,634,680 77,412,054

Table 20 gives the number of mines, men and average days worked for the year by districts and for the preceding 17 years.

Table 20—Days of active operation, by districts for 1917, and by years, 1900–1917.

		All mine	3.	Shi	pping m	ines.	L	ocal min	es.
	Mines.	Men.	Days.	Mines.	Men.	Days.	Mines.	Men.	Days.
`irst	52	3,144	173	14	2,568	250	38	576	14
econd	81	3,281	190	9	2,848	245	72	433	18
hird	97	4,959	178	24	4,511	255	73	448	15
ourth	185	3,442	152	19	2,880	246	166	562	14
ifth	52	6,859	203	28	6,630	211	24	229	19
ixth	34	7,601	231	31	7,578	227	3	23	27
eventh	34	9,001	185	21	8,938	203	13	63	15
lighth	36	6,821	189	25	6,769	207	11	52	15
linth	63	5,360	195	47	5,227	188	16	133	21
enth	57	5,501	185	29	5,351	200	28	150	17
leventh	72	15,618	160	42	15,515	214	30	103	8
welfth	47	9,306	188	35	9,241	205	12	65	13
917	810	80,893	179	324	78,056	215	486	2,837	15
916	803	75,919	163	284	72,998	185	519	2,921	15
915	779	75,607	158	280	72,227	172	499	3,380	15
914	796	80.035	162	340	77,262	174	456	2,773	18
913	840	79,497	170	371	76,855	179	469	2,642	16
912	879	79,411	160	380	76,407	172	499	3,004	15
911	845	77,410	165	387	74,508	169	458	2,902	16
910	881	74,634	171	390	71,520	179	491	3,114	16
909	886	72,733	168	384	69,518	189	502	3,215	15
908	922	70,841	171	407	67,470	191	515	3,371	16
907	933	66,714	184	411	63,154	209	522	3,500	16
906	1,018	62,283	172	419	58,851	189	599	3,432	16
905	990	59,230	174	397	55,743	198	593	3,487	15
904	932	54,774	198	380	51,384	213	552	3,399	18
903	933	49,814	192	353	46,494	222	580	3,320	17
902	915	46,005	179	332	42,807	210	583	3,198	16
901	915	44,143	174	331	40,940	204	584	3,217	15
900	920	39,384	183	323	36,298	214	597	3,084	16

### Classification of Employees.

Table 21 is a classification of employees by districts for the year and by years—1902-1917, inclusive.

Table 21—Classification of employees by districts 1917, and by Years 1902-1917.

First				Empl	oyees u	nder g	round.			On t	he sur	face.	
First		s	hippin	g mine	s.		Local	mines.		es.			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	District and year.	Miners.	Others employed.	Boys.	Total.	Miners.	Others employed.	Boys.	Total.	Shipping min	Local mines.	Total.	Grand,total.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Second Third Fourth Flith Systh Systh Systh Systh Superint Flighth Nanth Elevanth Twelfth  1917 1916 1914 1918 1919 1919 1919 1919 1919 1919	1,788 2,984 1,485 2,512 4,658 1,085 1,061 1,865 2,008 462 24,951 24,974 26,944 30,071 33,319 36,845 37,512 36,533 46,194 42,663 40,134	738 1,050 1,119 3,441 2,139 6,922 4,948 2,725 13,092 4,735 44,248 40,577 39,243 35,577 31,590 29,999 28,023 13,726 13,726 12,761	95 92 311 171 176 40 133 257 209 1,520 1,347 1,183 1,475 1,410 1,494 997 1,549 1,549 1,549 1,549 1,549 1,549	2,621 4,126 2,635 6,066 6,968 8,183 6,165 4,793 4,866 13,811 8,206 70,719 66,898 66,424 70,789 70,306 69,929 68,508 65,686 65,686 61,469 65,080 61,469 52,952	324 344 4911 165 12 488 37 97 98 85 45 2,163 2,296 2,616 2,191 2,082 2,304 2,400 2,539 2,737 2,737 2,785	37, 47, 133, 188	77 600 77 177 220 322 122 24 3 155 9	361 391 504 183 19 500 42 1100 1188 91 51 2,528 2,948 2,246 2,187 2,433 2,465 2,674 2,834 2,955 3,109 3,072	227 385 245 564 610 755 604 434 485 1,704 1,035 5,837 6,100 5,803 6,473 6,549 6,478 6,549 6,478 6,5978 6,001 6,174 5,893	72 577 588 46 4 10 23 32 12 14 419 393 432 527 455 571 440 381 416 421 360	299 442 303 610 614 768 614 457 7,716 1,049 7,756 6,493 6,235 7,000 7,004 7,049 6,437 6,579 6,417 6,595 6,259	4,959 3,442 6,852 7,600 9,000 6,822 5,366 5,500 15,618 9,300 80,893 75,919 77,410 77,410 77,410 77,73 70,841 62,283

Table 22 classifies the employees of shipping mines by occupation and gives the number in each occupation.

Table 22—Classification of employees in shipping mines.

	'Aumber,	757				7 57		-		1 2
е <b>т-</b>	Number of ployees a ground.	34	56	125 125 288 383 383 383 383 383 383 383 383 383	203	911	17	14	289	46
	Number of ployees u ground.	446 201	647	279 312 243 173 127 127 71 71 29	1,414	23	81	136	2,279	585
.səə/	mun latoT olqma lo	223	703	312 350 279 201 142 149 85 85	1,617	40	98	150	2,568	631
	Number no	31 40	17	40 70 10 10 6 6 15 15	166	°==	14		251	54
	Total behissele	183	632	272 280 273 191 136 149 71 29	1,451	25	84	150	2,317	577 475
	Trap- pers.		60	22 1 1 6	30			-	34	11
	Track- men.	4.01	9	4000-0	16		63	67	26	60 4
ation.	Timber- men.	91	-1	N0010H400H	22	==	73	9	37	00 00
occup	Shot firers.		:			.23	61		2	
in each	Miners.	364	527	210 249 214 134 134 134 25 55 42 42 42	1,077	20	65	112	1,781	389
Number of employees in each occupation	Machine- men.		-		9				9	-
dun j	Loaders.			40	41				41	
mber	Laborers.		35	23. 21. 10. 10. 10.	132	60		16	186	555
Nu	Drivers.	32	47	28 4 2 1 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	109	या या	000	11	175	200
	Cagers.	1001	-	0000000	18		67	63	53	010
	Postoffice address of the mine.	South Wilmington.		Oglesby. Lasalle do do do Pen Lasalle Lasalle Deer Park Seneca		Pontiae		Torino		Cherry
	Name of operator.	GRUNDY COUNTY—FIRST DISTRICT. Chi., Wilm. & Franklin Coal Co., No. 3 Wilmington Star Mining Co., No. 7	Total	Og lesby Coal Co.  Salsale Co. Carbon Coal Co., No. 5.  Lassale Co. Carbon Coal Co., No. 1.  Lassale Co. Carbon Coal Co., Union  Illinois Fare Co., No. 3.  Lassale Co. Carbon Coal Co., Union  Lassale Co. Carbon Coal Co., Lassale  Ca. Coal Co., No. 1.  Ruthan Coal Co., No. 1.  Ruthan Coal Co., No. 1.	Total	LIVINGSTON COUNTY—FIRST DISTRICT.  Murphy, Linskey & Kasher Coal Co., No. 1  Fairbury Coal Co., West.	Total	WILL COUNTY—FIRST DISTRICT. Wilmington Coal Mining & Mfg. Co., No. 6 Torino.	The district	BUREAU COUNTY—SECOND DISTRICT.  1 St. Paul Coal Co., No. 2  2. Springvalloy Coal Co. No. 3
	Number.	- 2		1284001-80		- 67		1		100

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514 395 463 2,514	130 134 51	315	2,848	628 292 38	958	157	180 2256 2256 2256 1110 104 422 422 423 423 430 430 430 430 430 430 430 430 430 43	1,404
39 28 186	10 31 13	54	240	126	129		4000 500 500 500 500 500 500 500 500 500	142
475 366 435 2,328	120 103 38	261	2,608	292 35	829	157	166 239 239 110 110 102 102 36 36 44 44 44 44 48 36 48 48 48 48 48 48 48 48 48 48 48 48 48	1,262
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154 55 208			209	17	17		25 25	115
41 44 188	2 3 3	81	210	10	53	10	211 21 21 33 33 4 4 4 8 8 8 8	76
35 35	777	32	219	36 18	57	15	85112071178188	8
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do. Dalzell Ladd	Mathervilledo		w yourung	Toluca	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Athens	Peoria do do do do do do Hama City Hama City Galsford Batwards Batronville Mapleton Kingston Mines	
3 Springvalley Coal Co., No. 1 4 Springvalley Coal Co., No. 5 5 Hinos Third Vein Coal Co., No. 1. Total	MERCER COUNTY—SECOND_DISTRICT.  1 Alden Coal Co., No. 7.  2 Coal Valley Mining Co., No. 3.  3 (Coal Valley Mining Co., No. 2.	ECOND DISTRICT.	E3480	MARSHALL COUNTY—THIRD DISTRICT.  I Toluea Coal Co., No. 1  2 Wenona Coal Co., No. 1  3 Acine Coal Co., No. 3.	Total	MEMARD COUNTY—THRD DISTRICT.  1 Athens Dawson Coal Co., No. 1	I Wolschlag Co-operative Coal Co. S Chake Coal & Coke Co., No. 2. I Crase Coal Co. I Craseou Coal Co., No. 1. I Crase Coal Co., No. 1. I Warsaw Coal Co. I Crase Coal Co. I Lancasco Coal Coal Co. I Lancasco Coal Coal Co. I Lancasco Coal Coa	Total

Table 22—Continued.

	Number.	07		H 01 00 4 10		- 67			1224201
AOVe	Number of ployees a ground,		82	84441	31	18	28	385	30 112 123 138 138 138 138 138 138 138 138 138 13
ınder	Number of ployees u ground,	670	1,090	193 158 47 33 21	452	205	304	4,126	303 208 236 236 143 143 168 102 102
ber,	mun latoT foldma lo	721	1,177	201 172 51 37	483	223	332	4,511	333 225 225 225 200 1157 1150 1150 1150
to.	Number no	127	127	22440	44	1023	32	474	20 20 20 12 18 18 18 18
	Total beflissefa	594	1,050	196 150 47 33 13	439	201	300	4,037	293 206 209 180 150 148 163 163 173
	Trap-	8 12	8	7	-	201	9	52	80000 00 00
	Track- men.	000	9	98778	13	22	4	72	40040460400
ation.	Timber- men.	6.9	12	4.6.1.1	6	12	3	54	0H4WHH8884
Number of employees in each occupation	Shot firers.		:	01 :01 O1	9			27	~~~~~~~~
in eac	Miners.		910	125 10 26 10	171	170	250	2,984	25 20 20 148 115 135 20 20 85 125
oloyees	Machine- men,		:	24 · · ·	34	00	00	62	30
of emp	Loaders.		i	1048	155	-	-	288	130
umber	Laborers.	355	32	9 :8 :	6	4	4	187	13 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
Ż	Drivers.	30.	22	4446	98	16.	22	270	19 10 10 10 10 10 10 10 10 10 10 10 10 10
	Cagers.	1001		204 ::	10	0101	4	14	-0000-0000-0
	Postoffice address of the mine.	Granville		Peoria Pekin do Peoria East Peoria		Roanoke			St. David. Farmington. Dunfermlino. Burefermlino. Farmington. do. do. do. Ganton. Farmington.
	Name of operator.	7—THIRD DISTRICT. 1 No. 1.	Total TAZEWELL COUNTY-THIRD DIDTRICT.	l Groveland Mining Co., No. 1. 2. Trazwell Coal Co. 3. Ubben Coal Co. 4. Lake Ene Coal & Mining Co. 5. Urbandale Coal Co.	Total	WOODFORD COUNTY—THIRD DISTRICT. Roanoke Coal Co. Minonk Coal Co., No. 2.	Total	The districtrullen county rought district.	Big Creek Coal Co., No. 2 Big Creek Coal Co., No. 4 Big Creek Coal Co., No. 4 Mormouth Coal Mining Co., No. 1 Adding Coal Co., No. 5 National Coal Mining Co. Simmons Coal Co., No. 2 Bagle Mining Co.
1	Number.	7 7		10040		-67			1004001000

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161 145 148 131 131 85 140 34	2,880	562 411 372 345 279 316 300 148	2,750	233 169 60	462	200	108	179	793 748 366
81 92 52 52 54 54 54 54 54 54 54 54 54 54 54 54 54	283	135 44 44 68 68 51 7 7 7 72 72 45	442	26 10	38	14	122	25	71 60 42
145 139 136 105 105 118 33 38 48 38	2,597	427 367 304 294 272 296 2228 103	2,308	207 167 50	424	186	96	154	722 688 324
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11 Adder Geal Co., No. 6. 12 Adder Geal Co., No. 6. 12 Adder Geal Co. No. 6. 13 Brown The Trail Co. 6. 14 Brown The Trail Co. 6. 15 Martin Coal Co., No. 1 17 Coal Creek Mining Co. 17 Coal Creek Mining Co. 18 Start Coal Co., No. 2. 18 Start Coal Co., No. 2.	Total	CHRISTAN COUNTY—FIFTH DISTRICT.  1 Peabody Coal Co., No. 7  2 Peabody Coal Co., No. 2  8 Peabody Coal Co., No. 2  8 Perabody Coal Co., No. 2  8 Perabody Coal Co., No. 2  8 Perabody Coal Co., No. 2  9 Formwall Coal Mining Co., No. 2  7 Para Coal Coal Co., No. 1  7 Para Coal Co., No. 1  7 Para Coal Co., No. 1  7 Sand Coal Co., No. 1  7 Sand Coal Co., No. 1  8 Assumption Coal & Mining Co.	Total	MACON COUNTY—FIFTII DISTRICT.  MAINIfacturers & Consumers Coal Co.  Denatur Coal Co.  S Invarie Minite Minite Co.	Total	MOULTRIE COUNTY—RETH INSTRUCT.  1 Lovington Coal Mining Co	1 Moweaqua C, M. & Míg. Co., No. 1	Total	VERMILION COUNTY—PIPTH DISTRICT. 1 United States Fuel Co., Vorm. 2 United States Fuel Co., No. 4. 3 Peabody Coal Co., No. 24.

Table 22—Continued.

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.899°	Total numl of employ	362 150 78 135 65 93 100 133 133 133	3,039	6,630	343 159 171	673	135	166	513 508 494 373 414 437
3	Number no classified.	37 6 14 23 23	263	782	30 30	77	26	31	56 41 18 24 67
	Total classified.	325 144 78 135 135 65 79 95 70 43	2,776	5,848	298 157 141	596	109	135	457 444 453 355 390 370
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Number of employees in each occupation	Miners.	852 84 852 853 84 853 853 853 853 853 853 853 853 853 853	1,174	2,512	250 130 107	487	90	104	365 270 294 310
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	Name of operator.	4 United States Puel Co., No. 3. 5 Missonfield Coult Co., No. 2. 7 Missonfield Coult Co., No. 3. 7 Missonfield Coult Co., No. 3. 8 Carbon Hill Coal Co., No. 5. 9 Sharmor Coal & Erlek Co., No. 1. 10 Danville Colleries Co. 11 United States Fuel Co., Bun. 22 Ohio Fuel Co.	Total	The district	LOGAN COUNTY—SIXTH DISTRICT.  Latham Cool & Mining Co.  2 Cifizens Cool & Mining Co.  3 Lincoln Mining Co.	Total.	MC LEAN COUNTY—SIATH DISTRICT.  McLean County Coal Co.  Colfax Coal Co.	Total	ASNOAMON COUNTY—SAYTH DISTRICT.  I Madison Coal Corporation, No. 6.  Chi, Willin, & Franklin Coal (Co., No. 1.  Si Springfield Dist. Coal Mining (Co., No. 2.  Stormgrad Dist. Coal Mining (Co., No. 4.  Stormgrad Admir Coal Co., No. 4.  Clerabody Coal Co., No. 6.

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Table 22—Continued.

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ation.	Timber- men.	10	138	244		7		510444	30		222223112222
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	Postoffice address of the mine.	Witt. Coffeen. Taylor Springs				Poeahontas		New Baden. Beckemeyer. Breese. do.			Livingston Stannon Stannon Stannon On Control Worden Stannon Free Stannon Stan
	Name of operator.	7 C. & E. I. Coal Properties, No. 12 8 Coffeen Coal Mining Co., No. 2 9 C. & E. I. Coal Properties, No. 15	Total.	The district	DISTRICT.	Pocahontas Mining Co., No. 1 Po	CLINTON COUNTY-EIGHTH DISTRICT.	I Southern Coal Coke & Mining Co., No. 9 Nv. Brewer-Pranton Mirring Co. Braxon North Breese Coal Mirring Co., N. M. I Brewer Frenton Mirring Co., R. B. Consolidated Coal Co.	Total	MADISON COUNTY-EIGHTH DISTRICT.	New Stammton Coal Co., No. 1   New Stammton Coal Co. No. 2   Mt. Olive & Stammton Coal Co. No. 2   Mt. Olive & Stammton Coal Co. No. 2   Nonk Bros. Coal & Colec Co., No. 2   Nonk Bros. Coal & Colec Co., No. 2   Coal Marriago Coal Coal Co., No. 2   Coal Coal Coal Coal Coal Coal Coal Coal

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Edwardsville	Glenridge. Sandoval. Odin. Sandoval		East St. Louis. Collinsville. Collinsville. Goldinsville.
14 East Side Coal Co.	MARION COUNTY—EIGHTU DISTRICT.  MARION COUNTY—EIGHTU DISTRICT.  2 Chitege-Sandoval Coa, 10, 10, 2, 2, 2, 2, 2, 2, 2, 3, 4, 2, 4, 4, 2, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	Total	1 St. Louis & O'Fallon Coal Co., No. 2. 2 Southern Coal Code & Mining Co., No. 8. 2 Southern Coal Code & Mining Co., No. 17. 4 Partial Coal Co. 5 Southern Coal Code & Mining Co., No. 17. 5 Southern Coal Code & Mining Co., No. 17. 5 Et Ellen Coal Co., No. 2. 5 Southern Coal Code & Mining Co., No. 17. 5 Et Ellen Coal Co., No. 2. 5 Staperon Mining Co., Carlonn Coal Code & Mining Co., Carlonn Code & Mining Co., No. 1. 5 Star Code Co., Serior Code & Mining Co., No. 1. 5 Star Code Co., Auss e. 5 Code Star Code & Mining Co., No. 2. 5 Forthern Code Co., Mass e. 5 Code & Mining Co., Code & Mining Co., Carlonn Code & Mining Co., Mass e. 5 Forthern Code Co., Mass e. 5 Minite Code Co., Mass e. 5 Minite Code Co., Mass e. 5 Minite Code Co., Mass e. 6 Minite Code Co., Mass e. 7 Minite Code Co., Mass e. 8 Minite Code Co., Mass e.

# TABLE 22—Continued.

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	Total classified.	48486488128861866	4,816	294 253 94 103 77	844	549 570 446 256 159 122
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pation.	Timber- nem.	1	36	22333	37	400000
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in eac	Miners.	08 25 2 4 2 4 2 4 5 6 1 1 1 1 2 6 6 1 1 1 1 1 1 1 1 1 1 1 1	1,865	221 8 4	233	450 125 132 100
Number of employees in each occupation	Machine- men	110	295	18 14 12 16	09	484 28 30
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umber	Laborers,	© 1211 142 17 16 16	325	21 8 8 8 6 4 9 1	8	25 4 8 10
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	Postoffice address of the minc.	Belleville.  do do  do do  Lenchurg, Lenchurg, Reburg, Releville, Preburg, Preburg, Preburg, Preburg, Preburg, Preburg, Preburg, Preburg, Belleville,		Hallidayboro Murphysboro do do De Soto.		Duquoindodo Valo Willisville Pinckneyville Coulterville.
	Name of operator.	Shew National Coal Co.   1   1   2   2   2   2   2   2   2   2	Total	JACKSON COUNTY—TENTIL DISTRICT.  [Jackson Coal Co., M. V. 2 Big Muddy Coal & from Co., No. 9 3 Gartside Coal Co., No. 4 4 Big Muddy Coal & Iron Co., No. 10 6 Giss Blair Big Muddy Coal Co., No. 2 6 De 88 Peacock Coal Co., No. 2	Total Total PERRY COUNTY—FENTH DISTRICT.	
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7 (Crown Coal Mining Co., B. E. 8 (Wilson Coal Co., G. M. 10 Balley Bros. Co., Little M. 11 Salper Valor Coal Co., Diamond	Total	RANDOLPH GOUNTY—FENTH DISTRICT.  I Willis Coal Mining Co., No. 6  S Moffat Coal Co., No. 1.  A Hones Brus. Coal & Mining Co., No. 2.  Williams Brus. Coal Go., Mo. 7.  Finandolph Coanty Coal Co., Crystal.  I Randolph Coanty Coal Co., S. 8 West Side Coal & Mining Co., S. 9 Wilson Coal Co., Crystal.	Total	WASHINGTON COUNTY—TENTH DISTRICT.  1 Centralia Coal Co., No. 5  2 Nashville Mining Co 3 Kulna Collery Co.	Total	The district	Old Ben Coal Corporation, No. 8. 2 Ball & Zoller Minnig Co., No. 1. 3 Chi, Wilm. & Frankfila Coal Co., No. 1. 4 Old Ben Coal Corporation, No. 9. 5 Old Ben Coal Corporation, No. 11 5 Old Ben Coal Corporation, No. 11 5 Old Ben Coal Corporation, No. 12 5 Old Ben Coal Corporation, No. 12 5 Old Ben Coal Corporation, No. 10 5 Old Ben Coal Corporation, No. 10 5 Old Ben Coal Corporation, No. 10 6 Old Ben Coal Coal Co., No. 1 6 Old Ben Coal Coal Co., No. 1 7 Old Ben Coal Co., No. 1 7 Old Ben Coal Co., No. 1 7 Old Ben Coal Coal Co., No. 1 7 Old Ben Coal Coal Co., No. 1 7 Old Ben Coal Coal Coal Coal Coal Coal Coal Coal

Table 22—Concluded.

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19pt	Number of o ployees ur ground.	187 202 331 89 89 90	9,208	883	144	282 379 282 282 283 283 283 283 283 283 190 283 182 182 183 183 183 183 183 183 183 183 183 183	4,383
196 *S99	dmun letoT Yolqmə to	217 243 366 98 98 120	10,511	71 93	164	458 402 402 301 265 265 27 27 27 27 27 27	4,745
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ation.	-19dmiT .n9m	100 140 23	197		63	02222122222222222	61
Number of employees in each occupation.	Shot firers.	:0140101	83	5	2	4 4 0 0	12
in each	Miners.	20.	323	26	26	200	83
loyees	Machine- men.	32 18 24 8	788	9 :	9	22. 23. 23. 24. 25. 25. 26. 27. 27. 28. 28. 29. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20	430
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ımber	Laborers,	- 600 00 00 00 00 00 00 00 00 00 00 00 00	2,073	15	21	061 52 52 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	388
Na Na	Drivers.	21222	270 1	L- ==	00	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	322
	Cagers.	अध्यक्ष	72	: :	:		51
ll	-			:::	<u> </u>		<u> </u>
	Postoffice address of the mine.	Herrin. Benton. do. Royalton.	-	Junction, R. R. No. Lauslity		Harrisburg  Wasson Wasson Wasson Harrisburg Bornad Gold Gold Gold Harrisburg Harrisburg Gold Gold Gold Gold Gold Gold Gold Gold	
	Name of operator.	17 Taylor Mining Co., No. 5. 18 United States Fuel Co. 19 Taylor Collieries Co., No. 2. 20 Franklin Coal & Coke Co., No. 2. 21 Western Coal Mining Co., No. 2.	Total GALLATIN COUNTY—ELEVENTH DISTRICT.	1 Hickory Hill Coal Co. 2 Northern Coal Co., No. 4	Total	SALINE COUNTY—ELEVENTH DISTRICT.  1 Saline County Coal Co., No. 3  3 Wasson Coal Co., No. 9  3 Wasson Coal Co., No. 1  4 O'Gara Coal Co., No. 1  5 O'Gara Coal Co., No. 1  7 O'Gara Coal Co., No. 1  7 O'Gara Coal Co., No. 5  8 Saline County Coal Co. No. 5  8 Saline County Coal Co., No. 5  9 Saline County Coal Co., No. 5  10 O'Gara Coal Co., No. 8  11 O'Gara Coal Co., No. 8  12 Wasson Coal Co., No. 8  13 Harrisburg Saline Col. Co., No. 1  14 O'Gara Coal Co., No. 4  15 O'Gara Coal Co., No. 4  16 O'Gara Coal Co., No. 4  17 Harrisburg Big Muddy Coal Co., No. 1  18 O'Gara Coal Co., No. 3  19 Gara Coal Co., No. 3  10 O'Gara Coal Co., No. 1  11 Harrisburg Big Muddy Coal Co., No. 1  12 Harrisburg Big Muddy Coal Co., No. 1  13 Harrisburg Big Muddy Coal Co., No. 1  14 Harrisburg Big Muddy Coal Co., No. 1  15 Harrisburg Big Muddy Coal Co., No. 1  16 Harrisburg Big Muddy Coal Co., No. 1  17 Harrisburg Big Muddy Coal Co., No. 1  18 Harrisburg Big Muddy Coal Co., No. 1  18 Harrisburg Big Muddy Coal Co., No. 1  19 Harrisburg Big Muddy Coal Co., No. 1  11 Harrisburg Big Muddy Coal Co., No. 1  11 Harrisburg Big Muddy Coal Co., No. 1  12 Harrisburg Big Muddy Coal Co., No. 1  13 Harrisburg Big Muddy Coal Co., No. 1  14 Harrisburg Big Muddy Coal Co., No. 1  15 Harrisburg Big Muddy Coal Co., No. 1  16 Harrisburg Big Muddy Coal Co., No. 1  17 Harrisburg Big Muddy Coal Co., No. 1	Total

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92			514	522	414	393	397	363	38	355	276	2006	167	200	200	161	919	0.76	248	189	179	151	130	103	100	30	506	176	99	200	3.1	-	-	
95	2,034 15,515 13,811		604	009	465	459	464	395	493	380	326	226	19.2	236	057	700	936	886	272	202	196	168	GIZ.	506	910	36	230	203	20	89	39	10	6	9,241 8,208
00	2,034		67	20.5	83	47	55	90	300	43	20	32	33	30	10	13	0 GV	12	21	18	17	22	R 9	7 2	3.5	5	£	69	14	12	10	:	:	1,143
87	260 13,481		604	522	382	412	408	8228 825 825	303	337	276	194	162	206	022	10.0	101	23.5	251	189	179	117	<u>S</u>	100	1 %	30	182	134	26	26	34	9	0	8,098 1,143
	260	-	75		20	च		et i	Q AC	0	00	œ	5	-jr	:	:	4.0	4 7	60	-	4	21.	-	- 12	5 00		7	80		-				210
2	260		9 1						19	6	00	00	9	9	40	0 Q	0 =	# K*	10	9	10	÷1	- 0	0 4	-10		10	7	CI	-	:		-	231
1	260		15		12	12	14	10	2 00				3						. 63			24 :		20					2.8		_		:	181
	97		10		00	-	-	φ 4	5		3		2	ক	7 -	+	:	40		57	01	211	24.5						101	C3	5	:	-	86
	462		160	_			:	190	667	280	_	130	:	165					200	160	1.13	115	25	150	15.4	30	152		10	:	:	9	8	3,262
œ	1,232		200					2			52	:	14	:	25	:		000			:	:		٥	:			×		90	7	:	:	540
48	8,377		375	300	70	220			086		135	:	111	::		1		8 8			:			₹				19		30	24	:	CI	2.594
19	1,501		40	40	203	47		_		8 9			12		14			ì	202	:	7	×	2 '	- 0	c o	1				9	:	01	2	384
00	809		255																					9	==	-	=	12	100		01	C-1	_	5003
1	124		4.5	- 1	101	23	T.C	010	00	40	- 01	7	2	21	7 (	24 6	200	NI O		2	1	01	m 1	_	4 5	-	- 5	100	2 2	_	1	:	:	3
Norris City			Herrin	Marion	Dewmaine	Herrin	Clifford	Dewmaine	Internation City	do do	Herrin	Bush	Marion	Herrin	Marion	Herrm	Marlon.	Johnston City	Carterville	Herrin	do	do	Johnston City	do.	Combeto	Morrion	Carterville	Whiteash	Marion	Pittsburg	Marion	.do-	do	
White County Mining & Power Co	The district	WILLIAMSON COUNTY—TWELFTH DISTRICT.	W. P. Rend Coal & Coke Co., No. 2.	Johnston City Coal Co., No. 1	Madison Coal Cornoration, No. 9	Chicago & Carterville Coal Co., A.	Big Muddy Coal & Iron Co., No. 8	Madison Coal Corporation, No. 8.	Big Muddy Coal & Iron Co., No. /	g Scarts Coat Co., McC.	T. G. Warden Coal Co.	Western Coal & Mining Co., No. 1.	Chieago & Big Muddy Coal & Coke Co., No.	Taylor Mining Co., No. 2	West Virginia Coal Co., No. 1	16 Chicago & Carterville Coal Co., B.	Seranton & Big Muddy Coal Mining Co	Big Muday Fuel Co., N. V	20 Hafer Washed Coal Co. No. 3	Pratt Bros., Jef.	Taylor Mining Co., No. 1	Dunean Coal Co., Dale	Williamson County Coal Co., No. 1	Ernest Coal Co., No. 1	Conferrally Die Michael Confer	Now Enterprise Coal Co.	Redoral Coal Co. No. 25	ohnston City Washed Coal Co	Ridge Coal Mining Co., No. 2	Marion & Pittsburg Coal Co., No. 2.	Henderson-Wallace Coal Co., H. II	Lewis Coal Co.	E. Lewis Coal Co.	Total

Table 23 is a recapitulation of the preceding table by districts.

Table 23—Classification of employees by districts—shipping mines.

jo	Number district	1 0	a co				1-						
Number of employees—	Above the surface.	289									_	_	7,337
Numemplo	Under ground.	2,279					,						70,719
Total	ber of em- ployees.	2,568	4,511	2,880	6,630								78,056
Num-	not classi- fied.	251					1,055						8,546
Total	elassi- fied.	2,317											69,510
	Trap-	34	25	41	94	121	117	134	32	98	260	210	1,251
	Track- men.	26	22	9	158	163	373	210	138	159	260	231	2,178
on.	Fimber- men.	37	24	41	168	137	244	146	36	82	260	184	1,422
occupati	Shot- firers.	-011	27	34	29	81	18	38	99	55	97	86	546
Number of employees in each occupation	Miners.	1,781											24,951
mployee	Ma- chine- men.	9 0	62	74	242	102	602	496	295	276	1,232	240	3,957
aber of e	Load- ers.	41										-	24,529
Nun	Labor- ers.	186	187	140	989	397	885	385	325	377	1,501	381	5,660
	Driv- ers.	175	270	212	314	521	374	388	363	313	809	206	4,263
	Cagers.	29	4	33	52	78	54	18	93	65	124	£	753
	District.	First.	Third	Fourth	Fifth	Sixth	Seventh.	Eighth	Ninth.	Tenth	Eleventh	Twelfth	The State.

#### RELATIVE RANK OF COUNTIES.

Table 24. The rank of those counties producing 1,000,000 tons or more of coal the past year and their relative rank and production each year for the four preceding years, is given in this table.

Table 24—Relative rank of counties producing 1,000,000 tons of coal or more for 5 years—1913-1917.

		1917		1916		1915		1914		1913
County.	Rank.	Tons.	Rank,	Tons.	Rank.	Tons.	Rank.	Tons.	Rank.	Tons.
Franklin. Williamson Sangamon. Macoupin St. Clair Madison Salime. Montgoory Christion Fulton Petry Peoria Clinton Bureau Randolph Lasalle Marion	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	1,553,455	···i6	1,319,551 1,395,588 1,298,582 1,170,200	6 5 8 10 12 11 9 16 15 14	7,324,644 7,216,188 5,488,618 4,849,352 3,012,693 3,437,469 2,719,138 2,061,535 2,020,675 2,035,221 2,173,821 1,100,749 1,142,264 1,236,873	3 4 5 7 6 9 8 14 10 11 16 17 12	1,109,162 1,467,022 1,456,780	1 2 4 5 7 6 10 8 14 9 12 15 17 11	

#### COAL PRODUCING COUNTIES.

Table 25 is a list of the coal producing counties showing the number of mines, employees and tonnage of each.

Table 25—Coal producing counties of the state, showing number of district, mines, men and tons, all mines, shipping mines, local mines.

			All mi	nes.	S	hipping	mines.		Local n	ines.
County,	District.	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
Bond . Bureau . Cass . Christian . Chinton . Franklin . Franklin . Fulton . Gallatin . Greene . Grundy . Hancock . Henry . Jackson . Jersey . Johnson .	8 2 4 5 8 11 11 7 7 1 4 4 2 10 7	1 10 1 9 5 21 93 11 9 3 2 12 18 1 1 3	129 2,537 3 2,750 1,401 10,511 3,208 195 37 709 8 93 1,025	1,500 2,822,167 1,426,594 11,317,657 2,739,185 125,366 6,604 408,064 3,965 45,951 818,571	5 9 5 21 19 2  6	1,401 10,511 2,880 164 703	2,822,167 1,426,594 11,317,657 2,548,722 116,145 406,264	5 1  74 9 9 1 2 12		7,377 1,500 190,465 9,221 6,604 1,800 3,965 45,951 20,491 1,322 17,823
Johnson Knox LaSalle Livingston Logan Macon	12 2 1 1 6 5	21 37 10 3 3	2,019 2,019 221 673 462	38,940 1,134,584 151,796 596,511	9 2		65,398 596,511	21 28 8	82 402 123	38,940 248,810 86,398

Table 25—Concluded.

			All mi	nes.	8	Shipping	mines.		Local m	ines.
County.	District,	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
Macoupin. Madison. Madison. Marion. Marshall. McDonough McLean. Menard. Mercer. Montgomery. Morgan. Moultrie. Peoria. Perry. Putnam. Randolph. Rock Island. Saline. Sangamon. Schuyler. Sott. Sterk. Sterk. Sterk. Sterk. Sterk. Sterk. Sterk. Sterk. Warnen. Warren. Washington.	77 88 83 34 466 33 227 74 455 33 100 22 111 664 44 55 29 33 55 210	15 266 4 48 22 9 9 21 160 19 21 160 39 32 32 7 7 6 6 10 6 33 33 5 4	5,384 4,246 1,045 9899 1111 1666 242 381 3,576 200 1,700 2,551 1,177 1,275 99 4,817 6,762 88 18 215 65 3,333 3,333 8,333 3,333 3,333 6,500 5,360	5,044,261 1,088,619 472,690 17,606 89,412 197,283 2644,452 3,641,676 1,000 239,818 1,553,455 2,477,561 77,727 4,530,903 6,948,648 24,154 2,940	12 15 4 4 3 3 9 9 1 11 11 12 2 9 2 1 47 5 13 3	4,194 1,045 958 166 157 315 3,576 200 1,404 2,502 1,177 1,227 4,745 6,739	6,578,833 5,012,787 1,088,619 466,184	3 111 	222 522 311 1111 85 666 499 722 233 888 188 366 477 173 36 193 35	11,992 31,474 6,506 17,606 41,405 27,166 1,000 201,134 27,225 29,334 57,722 34,866 10,565 10,705 10,705 103,234 25,546 10,705 103,234 25,744 103,234 25,744 103,234 10
White Will. Williamson Woodford.	11 12 3	1 2 44 2	95 195 9,294 332	105,645 85,072 9,666,302 201,598	1 35 2	95 150 9,241 332	105,645 70,462 9,634,680 201,598	 1 9	45 53	14,610 31,62
Total		810	80,893	78,983,527	324	78,056	77,412,054	486	2,837	1,571,473

#### DISPOSITION OF OUTPUT.

Table 26 gives the disposition of the tonnage by counties and districts, for the shipping mines and by districts for the local mines.

Table 26—Shipping or commercial collieries—distribution of output by counties and districts, also local mines by districts.

			Disposition of output—							
County and district.	Num- ber of mines.	Total output— all grades —tons.	Loaded on cars for ship- ment.	Supplied to locomo- tives, at mines.	Sold to railroad compa- nies.	Sold to local trade.	Consumed and wasted at the mines.			
FIRST DISTRICT.										
Grundy. LaSalle Livingston. Will	2 9 2 1	406,264 885,774 65,398 70,462	349,530 469,594 23,408 62,702	28,512 16,722		16,853 87,076 22,804 4,160	13,607 42,367 2,464 3,600			
Shipping mines Local mines	14 38			45,234	284,499	130,893 132,404	62,038 $219,214$			
The district	52	1,779,516	905,234	45,234	284,499	263,297	281,252			

Table 26—Continued.

mines.   dil grades   one ears   colonometrics   colonometri					Dispos	ition of ou	tput-	
Bureau	County and district.	ber of	output— all grades	on cars for ship-	locomo- tives.	railroad compa-	to local	sumed
Mercer   3   227, 292   81,224   458   142,124   1,792   11,4	SECOND DISTRICT.							
The district	Mercer	3	1,383,175 237,292 7,552	81,224	458	142,124	1,792	56,742 11,694 750
THIRD DISTRICT.  Marshall. 3 466, 184 175, 856 74, 189 172,073 19,612 24, Menard. 1 155,878 99,547 46,950 6,270 33 19,612 24, Menard. 1 11,55,878 99,547 46,950 6,270 33 14, Putnam. 2 712,033 540,773 3,340 127,033 15,690 25,333 14, Putnam. 2 712,035 540,773 3,340 127,033 15,690 25,333 14, Woodford. 2 200,598 90,911 9,790 71,633 18,329 10,000 10	Shipping mines Local mines		1,628,019 195,801		35,827		41,343 187,927	69,186 7,874
Marshall         3         466, 184         175, 856         74, 189         172,073         19,612         24, Menard         1         155,878         99,547         46,950         6,570         33,533         14, Purban         21,352,321         1,125,878         99,547         46,950         6,570         33,533         14, Purban         27,235         14, 173         3,340         127,033         15,690         25,353         14, Purban         22,712,335         340,773         3,340         127,033         15,690         25,353         14, Purban         22,01,598         90,911         9,793         71,633         15,329         10,188         15,229         10,188         10,188         24,149         25,149         10,188         24,149         26,149         10,188         24,149         26,149         10,188         24,149         26,149         27,148 <th< td=""><td>The district</td><td>81</td><td>1,823,820</td><td>695,572</td><td>35,827</td><td>786,091</td><td>229,270</td><td>77,060</td></th<>	The district	81	1,823,820	695,572	35,827	786,091	229,270	77,060
Menard	THIRD DISTRICT.							
Local mines	Menard Peoria Putnam Tazewell	1 11 2 5	155,878 1,352,321	99,547 1,126,864 540,773 343,954	3,340	46,950 208,130 127,033 38,934	6,270 2,835 15,690 41,849	24,454 3,111 14,492 25,699 5,603 10,930
FOURTH DISTRICT.  Fulton	Shipping mines Local mines	24 73	3,318,856 274,585					84,289 16,040
Fulton	The district	97	3,593,441	2,377,905	87,324	664,753	363,130	100,329
Shipping mines	FOURTH DISTRICT.							
The district	Fulton	19	2,548,722	1,758,112	12,677	687,482	13,039	77,412
FIFTH DISTRICT.  Christian			2,548,722 241,628	1,758,112			13,039 237,784	77,412 3,844
Christian         9         2,822,167         2,070,510         27,624         549,487         96,608         77,143con           Macon         3         259,004         95,427         150,147         150,147         180,147         180,147         180,147         180,147         180,147         180,147         180,147         180,147         180,147         180,147         180,183         9, 81,27         10,20         576,580         33,37,33         47,7         4637,812         28,644         1,426,067         298,438         156, 167,298         1,         167,298         1,         157,288         1,         167,298         1,         167,298         1,         167,298         1,         167,298         1,         167,298         1,         167,298         1,         157,288         1,         167,298         1,         157,288         1,         167,298         1,         157,288         1,         157,288         1,         157,288         1,         157,288         1,         157,288         1,         157,288         1,         157,288         1,         157,288         1,         157,288         1,         157,288         1,         157,288         1,         157,288         1,         157,288         1,	The district	185	2,790,350	1,758,112	12,677	687,482	250,823	81,256
Moultrie	FIFTH DISTRICT.							
Local mines   24   169,018           167,298   1,	Macon Moultrie Shelby	3 1 2	239,818 89,032	95,427 224,517 69,596			150,147 6,183 11,627	77,938 13,430 9,118 7,809 47,816
SIXTH DISTRICT.         Logan			6,547,072 169,018			1,426,067	298,438 167,298	156,111 1,720
Logan	The district	52	6,716,090	4,637,812	28,644	1,426,067	465,736	157,831
McLean         2         89,412         12,313         10,565         56,930         26,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         29,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         156,930         28,276         25,276         26,236         25,77,29         201,937         201,937         201,937         201,937         201,937	SIXTH DISTRICT.							
Local mines	McLean	2	89,412	12,313	10,565		70,233 56,930 286,276	27,372 9,604 156,628
SEVENTH DISTRICT.			7,624,006 10,565				413,439 10,265	193,604 300
Macoupin.         12         6,578,833         697,662         19,350         5,606,236         53,729         201,360           Montgomery.         9         3,641,676         2,619,457         25         913,749         30,219         78,78           Shipping mines.         21         10,220,059         3,317,119         19,375         6.519,985         83,948         280,4           Local mines.         13         19,916            19,870	The district	34	7,634,571	4,633,259	38,674	2,345,030	423,704	193,904
Montgomery.     9     3,641,676     2,619,457     25     913,749     30,219     78,5       Shipping mines.     21     10,220,059     3,317,119     19,375     6,519,985     83,948     280,4       Local mines.     13     19,916       19,870	SEVENTH DISTRICT.							
Local mines. 13 19,916 19,870	Macoupin			697,662 2,619,457			53,729 30,219	201,856 78,226
	Shipping mines Local mines				19,375	6.519,985		280,082 46
The district	The district	34	10,240,425	3,317,119	19,375	6,519,985	103,81	280,128

Table 26—Concluded.

			1	7:			
				Dispo	sition of ou	tput-	
County and district.	Num- ber of mines.	Total output— all grades —tons.	Loaded on cars for ship- ment.	Supplied to locomo- tives. at mines.	Sold to railroad compa- nies.	Sold to local trade.	Con- sumed and wasted at the mines.
EIGHTH DISTRICT.							
Bond	1 5 15 4	107,895 1,426,594 5,012,787 1,088,619	79,882 1,062,925 4,442,262 763,254	61,681 13,793	20,000 224,092 373,782 285,759	4,013 18,545 79,483 13,953	4,000 59,351 103,467 25,653
Shipping mines	25 11	7,635,895 31,474	6,348,323	75,474	903,633	115,994 23,564	192,471 7,910
The district	36	7,667,369	6,348,323	75,474	903,633	139,558	100,381
NINTH DISTRICT.							
St. Clair	47	5,652,416	4,739,783	98,761	538,895	112,439	162,538
Shipping mines	47 16	5,652,416 103,234	4,739,783	98,761	538,895	112,439 98,246	162,538 4,988
The district	63	5,755,650	4,739,783	98,761	538,895	210,685	167,526
TENTH DISTRICT.							
Jackson Perry Randolph Washington	6 11 9 3	798,080 2,450,336 1,133,134 756,950	628,492 1,585,612 718,870 717,851	44,584 70,505 10,500	18,513 695,842 382,826	55,363 27,112 5,176 10,380	51,128 71,265 26,262 18,219
Shipping mines Local mines	29 28	5,138,500 80,099	3,650,825	125,589	1,097,181	98,031 76,400	166,874 3,699
The district	57	5,218,599	3,650,825	125,589	1,097,181	174,431	170,578
ELEVENTH DISTRICT.							
Franklin Gallatin Saline White	21 2 18 1	11,317,657 116,145 4,496,034 105,645	9,907,951 111,265 4,054,925 51,394	1,091 1,208 4,698 3,196	991,643 291,461 40,215	70,273 672 42,332 7,644	346,699 3,000 102,618 3,196
Shipping mines Local mines	42 30	16,035,481 44,090		10,193	1,323,319	120,921 43,488	455,513 602
The district	72	16,079,571	14,125,535	10,193	1,323,319	164,409	456,115
TWELFTH DISTRICT.							
Williamson	35	9,634,680	5,926,349	50,116	3,229,484	44,146	384,585
Shipping minesLocal mines	12	9,634,680 49,445	5,926,349	50,116	3,229,484	44,146 49,149	384,585 296
The district	47	9,684,125	5,926,349	50,116	3,229,484	93,295	384,881
THE STATE.							
Shipping minesLocal mines		77,412,054 1,571,473	53,115,828	627,888	19,806,419	1,577,216 1,304,940	2,284,703 266,533
. Total	810	78,983,527	53,115,828	627,888	19,806,419	2,882,156	2,551,236

Table 27 shows by districts the disposition of the output of shipping mines.

Table 27—Disposition of the output of shipping mines, by districts.

			Disposition of output—							
District.	Num- ber of mines.	Total output— all grades —tons.	Shipped from the mines.	Supplied tolocomotives at the mines.	Sold to railroad companies.	Sold to local trade.	Consumed and wasted at the mine.			
First. Second Third. Fourth Fifth Sixth. Seventh. Eighth Ninth. Tenth. Eleventh Twelfth The State, 1917.	14 9 24 19 28 31 21 25 47 29 42 35	1,427,898 1,628,019 3,318,856 2,548,722 6,547,072 7,624,906 10,220,509 7,635,895 5,632,416 9,634,680 77,412,054 62,283,236	905,234 695,572 2,377,905 1,758,112 4,633,259 3,317,119 6,348,323 4,739,783 3,650,825 14,125,535 5,926,349 53,115,828	45,234 35,827 87,324 12,677 28,644 38,674 19,375 75,474 98,761 125,589 10,193 50,116	903,633 538,895 1,097,181 1,323,319	130,893 41,343 104,585 13,039 298,438 413,439 83,948 115,994 112,439 98,031 120,921 44,146	62,033 69,186 84,285 77,412 156,111 193,604 280,082 192,47 162,538 166,874 455,518 384,588			
Gain	40	15,128,818	8,961,409		5,358,922	411,670	387,83			

#### Railroads.

Table 28 shows the railroads on which coal was hauled to market, the name of the counties, tons hauled and used on locomotives.

TABLE 28—RAILROADS WHICH TRANSPORTED THE COAL, NUMBER OF TONS HAULED BY EACH AND USED ON LOCOMOTIVES, AND THE COUNTIES CONTRIBUTING THE SAME.

		Numbe	er of—	Tons received by each road for—		
No.	Railroad and county.	Counties.	Mines.	Shipment.	Locomo- tives.	
	The State.	38	324	53,115,828	627,888	
1	Illinois Central	21	89	10,019,978	195,100	
	Franklin Williamson Perry St. Clair Marion Washington Jackson Christian Madison Logan Logan Logan Madison Logan Sangamon Marshall Steby Mooderd Soline Modern		10 17 8 17 3 2 3 3 3 1 1 4 4 4 1 1 2 2 1	2,490,046 1,764,695 1,476,048 762,044 558,522 487,131 440,684 372,152 389,123 391,838 230,977 166,036 163,633 73,728 66,085 48,584 41,953 26,060 9,873 6,835	1,061 64,608 30,658 44,584 23,668 15,258 4,698 10,565	

No.		Numb	er of—	Tons receiroad	ved by each for—
140.	Railroad and county.	Counties.	Mines.	Shipment.	Locomo- tives.
2	Chicago, Bur lington & Quincy	11	51	9,802,244	6,747
	Franklin Williamson Fulton		15 11 13	5,630,508 1,807,259 1,260,973	1,239
	Washington		1 3	1,807,259 1,260,973 214,620 211,985	1,20
	Marion. Peoria Sangamon.		1 2 1	184 147	
	LaSalle Bureau Stark		2 1 1	158,346 99,803 26,544 3,327	
3	Cleveland, Chicago, Cincinnati & St. Louis	10	37	6,558,845	23,93
	Saline Montgomery		17 7	3,987,948 1,195,353 556,260	
	Madison St. Clair Vermilion		1 3	393,855	
	Tazewell Christian Macon		2 2 1	53,976 19,911 17,901	23,93
	Shelby McLean		1	2,754 440	
4	Chicago & Eastern Illinois	6	33	5,092,522	1,02
	Vermilion Franklin Montgomery		8 9 7 7	1,525,770 1,325,130 1,043,567	1,02
	Williamson Madison Christian		7 1 1	728,357 369,803 99,895	
5	Chicago & Alton	8	26	2,442,291	4,09
	Sangamon Macoupin Logan		13 5 2	1,929,768 234,218 173,400 80,094	4,09
	Marshall Livingston Grundy		2 1 1	11,202	
	LaSalle McLean		Î	7,838 4,251 1,520	
6	St. Louis, Iron Mountain & Southern	3	23	2,083,870	50,000
	Williamson Franklin Jackson		18 4 1	1,580,074 462,267 41,529	50,000
7	St. Louis, Troy & Eastern	1	3	1,630,632	1,625
8	Madison	<u></u>	3 7	1,630,632	8,130
	Christian		3	1,289,347 272,378	3,689
9	SangamonBaltimore & Ohio Southwestern	6	17	1,384,328	64,87
	ClintonSangamon.		4 4	597,553 409,015	61,681
	St. Člair. White Christian Shelby.		4 1 3	300,100 51,394 25,509 757	3,196

		Numb	er of—	Tons received	red by each for—
No.	Railroad aand county.	Counties.	Mines.	Shipment.	Locomo- tives.
10	Wabash	7	20	1,215,220	
	Sangamon		7	550,418	
	Christian Moultrie		2 1	263,696 224,517	
	Madison		4 2	90,178 64,665 21,504	
	Vermilion.		2 3	64,665	
	Macon Livingston		1	232	
11	-	3	8	1,197,505	15,70
11	Chicago, Milwaukee & St. Paul				
	Bureau		4 2	574,107 540,773	11,19
	Putnam LaSalle		2	82,625	3,3
12			5	1,194,106	5-
12	Southern				54
	St. Clair Clinton		4 1	728,734 465,372	99
13	Louisville & Nashville	4	16	1,036,200	65,92
13					
	St. Clair Gallatin		12 2	867,918 111,265 40,917	54,2 1,20
	Saline		1	40,917	
	Washington		1	16,100	10,50
14	Litchfield & Madison	1	5	1,030,025	6,7
	Madison		5	1,030,025	6,7
15	St. Louis & O'Fallon	1	2	988,793	11,2
	St. Clair		2	988,793	11,2
16	N 0 01 70 1	2	7	638,629	
10			5		
	Fulton Peoria		2	416,069 222,560	
17	Chicago, Peoria & St. Louis	2	9	554,666	
	Sangamon		- 8	455,119 99,547	
	Menard		1		
18	Peoria & Pekin Union	2	4	448,424	
	Peoria. Tazewell		3 1	230,933 217,491	
		=======================================	3	430,710	
19	Vandalia				
	Madison Bond		1 1	350,570 79,880	
	Macon.		1	260	
20	Mobile & Ohio.	3	7	422,964	1,3
-			4	225,438	
	Randolph Jackson		2	146,279	
	St. Clair		1	51,247	1,3
21	Elgin, Joliet & Eastern	. 2	3	391,631	
	GrundyWill		2	328,929 62,702	
22	Toledo, St. Louis & Western	. 2	4	381,411	5,4
			2	380,537	-
	Montgomery		2	874	5,4

37.		Numb	er of—	Tons received	red by each for—
No.	Railroad and county.	Counties.	Mines.	Shipment.	Locomo- tives.
23	St. Louis & Belleville	, 1	3	379,770	
	St. Clair		3	379,770	
24	Illinois Traction System	4	16	354,110	
	Vermilion Sangamon Madison Tazewell		8 6 1 1	155,580 145,740 44,790 8,000	
25	Peoria Railway Terminal	1	3	351,184	
	Peoria		3	351,184	
26	Illinois Southern	2	4	309,635	
	Randolph Perry		3 1	262,455 47,180	
27	East St. Louis & Suburban	1	2	267,322	748
	St. Clair		2	267,322	748
28	Toledo, Peoria & Western	3	4	198,727	28,167
	Peoria Fulton Livingston		2 1 1	112,518 81,070 5,139	11,445 16,722
29	Chicago & Northwestern.	3	6	157,083	24,175
	Macoupin Sangamon Bureau		3 2 1	85,423 61,291 10,369	24,178
30	Chicago, Rock Island & Pacific	3	6	138,973	27,815
	LaSalle. Marshall. Mercer.		4 1 1	118,984 10,400 9,589	27,346 11 458
31	Atchison, Topeka & Santa Fe	4	5	126,522	81,31
	Tazewell Woodford Grundy Marshall		1 2 1 1	53,167 48,958 12,763 11,634	9,79
32	New York Central	1	1	101,300	
	Vermilion.		1	101,300	
33	Rock Island & Southern.	1	2	71,635	
	Mercer		2	71,635	
34	Wabash, Chester & Western	1	2	62,384	5,89
-	Perry.		2	62,384	5,89
35	Marion & Eastern	1	2	45,964	110
συ	Williamson.			45,964	110
36	Lake Erie & Western	2	2	11,800	
30	Tazewell McLean	2	1 1	11,320 480	

Table 28—Concluded.

		Numbe	r of—	Tons received by each road for—		
No.	Railroad and county.	Counties.	Mines.	Shipment.	Locomo- tives.	
37	Cincinnati, Indianapolis & Western	1	2	7,178		
	Macon		2	7,178		
	By boat—Illinois River	1	1	25,522		
	Peoria		1	25,522		

Table 29 is a list of the roads hauling coal, with the per cent hauled by each road.

Table 29—Railroads which have received the coal for shipment and for use on locomotives, and the per cent carried by each road.

		Num	ber of	Tons received	ed by each for—	Per cen
To.	Railroad,	Coun- ties.	Mines.	Shipment.	Locomo- tives.	by each road.
	The State.	38	324	53,115,828	627,888	100.0
	Illinois Central	21	89	10,019,978	195,100	18, 8
2	Chicago, Burlington & Quincy	11	51	9,802,244	6,747	18.
3	Cleveland, Cincinnati, Chicago & St. Louis	10	37	6,558,845	23,935	12. 3
4	Chicago & Eastern Illinois	6	33	5,092,522	1,020	9, 5
5	Chicago & Alton St. Louis, Iron Mountain & Southern	- 8	26	2,442,291	4,092	4. (
6	St. Louis, Iron Mountain & Southern	3	23	2,083,870	50,000	3. 9
7	St. Louis, Troy & Eastern	1	3	1,630,632	1,625	3.
8	Chicago & Illinois Midland	2	7	1,561,725	8,130	2.
9	Baltimore & Ohio Southwestern	6	17	1,384,328	64,877	2.
0	Chicago, Milwaukee & St. Paul	3	- 8	1,197,505	15,700	2.
1	Southern	2	5	1,194,106	545	2.
2	Wabash	7	20	1,215,220		2.
13	Louisville & Nashville	4	16	1,036,200	65,926	1.
4	Litchfield & Madison	1	5	1,030,025	6,742 11,272	1.
5	St. Louis & O'Fallon	1	2	988,793	11,272	1.
6	Minneapolis & St. Paul	2	7	638,629		1.
7	Chicago, Peoria & St. Louis	2	9	554,666		I.
8	Peoria & Pekin Union	2	4	148,424		
9	Vandalia	3	3	430,710		
0.0	Mobile & Ohio	3	7	422,964	1,320	
1	Elgin, Joliet & Eastern	2	3	391,631		:
2	Toledo, St. Louis & Western	2	4	381,411	5,451	:
	St. Louis & Belleville		3	379,770		
4	Illinois Traction System	4	16	354,110		1
25	Peoria Ry, Terminal.	1	3	351,184		
26	Illinois Southern	2	4	309,635	748	
7	East St. Louis & Suburban	1 3	2 4	267,322 198,727	748 28,167 24,175 27,815 81,318	:
28	Toledo, Peoria & Western.		6		24,175	:
9	Chicago & Northwestern		6	157,083 138,973	27,815	
30	Chicago, Rock Island & Pacific		5	126,522	81,318	
31	Atchison, Topeka & Santa Fe		1 1		81,315	
32	New York Central.	1 1	2	71,635		
33	Rock Island Southern			62,384	5,897	
34	Wabash, Chester & Western		2 2 2	45,964	116	
35			2		110	
36 37	Lake Erie & Western		2	7,178		
01	By Boat—Illinois River		2	1,148		:

Table 30 shows the counties producing the commercial coal, the name of the railroads serving it, the tonnage hauled by each road, and the number of mines contributing.

TABLE 30—COUNTIES WHICH HAVE PRODUCED THE COMMERCIAL COAL,
THE TONNAGE DELIVERED TO THE SEVERAL RAILROADS FOR TRANSPORTATION AND FOR LOCOMOTIVES.

.,		Numb	oer of—		ved by each for—
No.	County and railroad.	Railroads.	Mines.	Shipment.	Locomo- tives.
	The State	37	324	*53,115,828	627,888
1	Franklin	4		9,907,951	1,091
	Chicago, Burlington & Quincy. Illinois Central. Chicago & Eastern Illinois. St. Louis, Iron Mountain & Southern.		16 9	5,630,508 2,490,046 1,325,130 462,267	1,061
2	Williamson	5		5,926,349	50,116
	Chicago, Burlington & Quincy Illinois Central St. Louis, Iron Monntain & Southern Chicago & Eastern Illinois Marion & Eastern		11 17 18 7 2	1,807,259 1,764,695 1,580,074 728,357 45,964	50,000
3	St. Clair	9		4,739,783	98,761
	East St. Louis & O'Fallon Louisyille & Nashville Illinois Central Southern Cleveland, Cincinnati, Chicago & St. Louis. St. Louis & Belleville Baltimore & Ohio Southwestern East St. Louis & St. Suburban Mobile & Ohio.		12 17 4 1 3 4 2 1	988,793 867,918 762,044 728,734 393,855 379,770 300,100 267,322 51,247	11,272 54,218 30,658 545 748 1,320
4	Madison	9		4,442,262	13,798
	St. Louis, Troy & Eastern. Litchfield & Madison. Cleveland, Cincinnati, Chicago & St. Louis., Chicago & Eastern Illinois Illinois Central. Vandalia. Wabash. Illinois Traction System. Toledo, St. Louis & Western.		4	1,630,632 1,030,025 556,260 369,803 369,123 350,577 90,178 44,790 874	1,625 6,742 5,426
5	Sangamon	9		4,145,708	4,441
	Chicago & Alton. Wabash Peorin & St. Louis. Chicago & Ohio Southwestern Chicago & Illinois Midland Chicago & Illinois Midland Illinois Central. Chicago, Burlington & Quincy Illinois Traction System. Chicago & Northwestern		8 4 4	1,929,768 550,418 455,119 409,015 272,378 163,633 158,346 145,740 61,291	4,441
6	Saline	3		4,054,925	4,698
	Cleveland, Cincinnati, Chicago & St. Louis Louisville & Nashville Illinois Central		17 1 1	3,987,948 40,917 26,060	4,698

		Numb	er of—	Tons receive	d by each or—
No.	County and railroad.	Railroads.	Mines.	Shipment.	Locomo- tives.
7	Montgomery	3		2,619,457	25
	Cleveland, Cincinnati, Chicago & St. Louis Chicago & Eastern Illinois Toledo, St. Louis & Western		7 7 2	1,195,353 1,043,567 380,537	25
8	Vermilion	5		2,177,762	1,020
	Chicago & Eastern Illinois Cleveland, Cincimani, Chicago & St. Louis Illinois Traction System New York Central Wabash		8 3 8 1 2		1,020
9	Christian	6		2,070,510	27,624
	Chicago & Illinois Midland Illinois Central Wabash Chicago & Eastern Illinois Baltimore & Obio Southwestern Cleveland, Cincinnati, Chicago & St. Louis.		3 2 1 3 2	1,289,347 372,152 263,696 99,895 25,509 19,911	23,935
10	Fulton	3		1,758,112	12,677
	Chieago, Burlington & Quincy. Minneapolis & St. Louis Toledo, Peoria & Western.		13 5 1	1,260,973 416,069 81,070	1,232
11	Perry			1,585,612	70,505
	Illinois Central Wahash, Chester & Western Illinois Southern		8 2 1	1,476,048 62,384 47,180	64,608 5,897
12	Peoria	5		1,101,342	
	Peoria Terminal, Peoria & Pekin Union, Minneapolis & St. Paul, Chicago, Burlington & Quincy, Toledo, Peoria & Western,		3 3 2 2 2 2	351,184 230,933 222,560 184,147 112,518	
13	Clinton			1,062,925	61,681
	Baltimore & Ohio Southwestern			597,553 465,372	61,681
14	Marion.	. 2		763,254	
	Illinois Central		3 1	558,522 204,732	
15	Randolph	. 3		718,870	
	Illinois SouthernIllinois Central. Mobile & Ohio.		3 4 4	262,455 230,977 225,438	
16				717,851	
	Illinois Central Chicago, Burlington & Quincy Louisville & Nashville		. 1	487,131 214,620 16,100	10,500
17	Macoupin	. 4		. 697,662	19,350
	Chicago & Alton Chicago, Burlington & Quincy Illinois Central Chicago & Northwestern		1	211,985 166,036	4,092 15,258

<b>.</b> T.		Numb	oer of	Tons received	red by each for—
No.	County and railroad.	Railroads.	Mines.	Shipment.	Locomo- tives.
18	Jackson	3		628,492	44,58
	Illinois Central Mobile & Ohio St. Louis, Iron Mountain & Southern		3 2 1	440,684 146,279 41,529	44,58
19	Bureau	3		611,021	35,36
	Chicago, Milwaukee & St. Paul Chicago, Burlington & Quincy Chicago & Northwestern		4 1 1	574,107 26,543 10,369	11,19
20	Putnam	1		540,773	3,3
	Chicago, Milwaukee & St. Paul		2	540,773	3,3
21	Logan.	2		475,238	23,6
	Illinois Central Chicago & Alton		3 2	301,838 173,400	23,66
22	LaSalle	5		469,594	28,5
	Hlinois Central Chicago, Rock Island & Pacific Chicago, Burlington & Quincy Chicago, Milwaukee & St. Paul Chicago & Alton		4 4 2 2 1	163,931 118,984 99,803 82,625 4,251	27,3
23	Grundy	3		349,530	
	Elgin, Joliet & Eastern Atchison, Topeka & Santa Fe Chicago & Alton		2 1 1	328,929 12,763 7,838	
24	Tazewell.	5		343,954	
	Peoria & Pekin Union, Cleveland, Cincinnati, Chicago & St. Louis. Atchison, Topeka & Santa Fe. Lake Erie & Western. Illinois Traction System.		1 2 1 1 1	217,491 53,976 53,167 11,320 8,000	
25	Moultrie	1		224,517	
	Wabash		1	224,517	
26	Marshall	4		175,856	74,1
	Chicago & Alton Illinois Central Atchison, Topeka & Santa Fe Chicago, Rock Island & Pacific		2 1 1 1	80,094 73,728 11,634 10,400	71,5
27	Gallatin	1		111,265	1,2
	Louisville & Nashville		2	111,265	1,2
28	Menard	1		99,547	
	Chicago, Peoria & St. Louis		1	99,547	
29	Macon.	5		95,427	
	Illinois Central. Wabash. Cleveland, Cincinnati, Chicago & St. Louis Chicago, Indiana & Western. Vandalia.		2 3 1 2	48,584 21,504 17,901 7,178 260	

Table 30—Concluded.

		Numl	er of—	Tons received	red by each for—
ŇO.	County and railroad.	Railroads.	Mines.	Shipment.	Locomo- tives.
30	Woodford.	2		90,911	9,79
	Atehison, Topeka & Santa Fe. Illinois Central		2	48,958 41,953	9,79
31	Mercer	2		81,224	45
	Rock Island & Southern Chicago, Rock Island & Pacific.		2 1	71,635 9,589	45
32	Bond	1		79,882	
	Vandalia		1	79,882	
33	Shelby	3		69,596	
	Illinois Central Cleveland, Cincinnati, Chicago & St. Louis. Baltimore & Ohio Southwestern		1 1 1	66,085 2,754 757	
34	Will.	1		62,702	
	Elgin, Joliet & Eastern		1	62,702	
35	White	1		51,394	
	Baltimore & Ohio Southwestern		1	51,394	
36	Livingston	4		23,408	16,72
	Chieago & Alton Illinois Central. Toledo, Peoria & Western Wabash		1 1 1 1	11,202 6,835 5,139 232	16,72
37	McLean	4		12,313	10,56
	Illinois Central Chicago & Alton. Lake Erie & Western. Cleveland, Cincinnati, Chicago & St. Louis.		2 1 1 1	9,873 1,520 480 440	10,56
38	Stark	1		3,327	
	Chicago, Burlington & Quincy		I	3,327	

<sup>\*</sup> Including 25,552 tons shipped by boat.

Table 31 is a list of the counties containing shipping mines and gives the tons shipped and supplied to locomotives, and the per cent of the total supplied by each county.

TABLE 31—COUNTIES CONTAINING SHIPPING MINES, TONS SHIPPED AND SUPPLIED TO LOCOMOTIVES, AND THE PER CENT FURNISHED BY EACH COUNTY FOR SHIPMENT.

	Numb	er of—	Tons received	red by each for—	Per cent
County.	Railroads.	Mines.	Shipment.	Locomo- tives.	shipped.
The State	37	324	*53,115,828	627,888	100, 00
Franklin. Williamson St. Clair Madison Sangamon Saline Montgomery Vermillon Christian Fulton Fulton Fulton Warion Marion Randolph Washington Macoupin JackSon Bureau Putnam Logan Moultrie	4 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	21 35 477 15 266 18 9 19 11 11 15 4 4 9 9 9 9 12 2 3 3 3 2 2 2 3 3 3 3 1 2 1 2 1 3 3 3 3	9,907,951 5,926,349 4,4739,738 4,442,262 4,1054,925 2,107,762 2,107,762 1,758,102 1,585,612 1,685,612 1,685,612 1,687,662 628,492 611,021 640,733 445,238 349,530 343,954 549,530 549,	1,091 50,116 98,761 13,793 4,441 4,698 2,762 1,020 27,624 12,6765 61,681 10,500 61,681 10,500 28,512 74,189 1,208	18, 66 11, 16 8, 99 8, 8, 37 7, 81 4, 19 4, 19 2, 97 4, 11 1, 33 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
Livingston McLean Stark	4 4 1	2 2 1	23,408 12,313 3,327	16,722 10,565	. 0:

<sup>\*</sup> Including 25,522 tons shipped by boat.

#### UNDERGROUND HAULAGE.

Table 32 shows the method of underground haulage in the shipping mines and the tons hauled by each method.

Table 32—Haulage of coal in shipping mines, by districts.

	Motor.			Cable.		Mule.		Hand.	
Districts.	Num- ber of mines.	Num- ber of motors.	Tons.	Num- ber of mines.	Tons,	Num- ber of mines.	Tons.	Num- ber of mines.	Tons.
First. Second. Third Fourth.	3 4 10 10	6 9 27 15	438,657 840,836 1,805,295 1,665,586	1	98,209 27,619 118,717	11 3 13 7	989 241 681,422 1,485,942 764,419	1	7,552

Table 32—Concluded.

		Motor.			able.	M	ule.	Hand.	
Districts.	Num- ber of mines.	Num- ber of motors.	Tons.	Num- ber of mines.	Tons.	Num- ber of mines.	Tons.	Num- ber of mines.	Tons
fth	17	52	5 865 022			8	372 790		
xth	20	48	5.894.760	1	77,083	10	1,652,163		
venth	21		10,220,509						
ghth	19	56	7,503,012			6			
inth	21	42	4,633,610			25	963,910		
nth	13	61				16	1,264,789		
eventh	36	249	15,673,877			6	361,604		
welfth	26	78	8,781,893			8	753,122		
ne State, 1917	200	744	67,196,768	5	321,628	113	9,422,285	1	7,8
ie State, 1916	176		53,140,005		675,235	98			( ','
ne State, 1915	173		47,239,554		320,062	92			502.
ie State, 1914	191		47,485,729	6	478,041		11,233,532		106,
ne State, 1913	185		46,194,737	13	1,173,528	168	13,014,153		,
ne State, 1912	165		37,958,050		400,970		17,707,993		29,
ne State, 1911	137		29,310,173	24	2,321,016		16,839,883		287,
ne State, 1910	106		23,204,480		2,508,343	251	21,243,637	8	268,
ne State, 1909	96		21,892,462	16			24,645,398		
ne State, 1908 ne State, 1907	88 75		19,024,665 16,542,575	32 26	3,273,753 2,864,241		25,482,634 26,689,533		28, 46,

Note.—Five strip mines, three in the fifth, one in the ninth, one in the twelfth district are not included in this table. Tonnage, 463,821.

#### EARNINGS OF MINERS.

Table 33 gives the average price per ton paid for mining in hand and machine mines for the year by districts, and by years—1902-1917 inclusive.

Table 33—Average price paid for mining by hand and machine in shipping and local mines, by districts, 1917–1902.

		Hand n	nining.		Machine mining.				
	Shipping mines.		Local mines.		Shipping	mines.	Local mines.		
District and year.	Tons.	Aver- age price per ton.	Tons.	Aver- age price per ton.	Tons.	Aver- age price per ton.	Tons.	A ver- age price per ton	
First	1,403,406	\$0, 962	283,557	\$0, 866	24,492	\$0, 76	3,522	,	
Second	1,581,632	. 924	153,178		46,387	. 681	20,000	\$0.85	
Third	2,954,321	. 834	242,111	. 941	362,118		19,549	. 52	
Fourth	1,827,504		229,381	1.074	721,218				
Fifth	2,996,225	. 674	142,837		3,231,587				
Sixth	6,220,707		2,495		1,403,299		9,867		
Seventh	1,480,253 1,556,258		9,068 19,683	.89	8,740,256 6,079,637	. 591	11,568		
Ninth	2,647,863		101,034	.719	3,004,553		11,000	. 00.	
Tenth	2,143,291	.634	53,347	.698	2,995,209	. 568	1,594	. 67	
Eleventh	496,356		43,995	. 752	15,539,125				
Twelfth	4,636,774		35,845		4,997,906	. 551			
	00 011 400	00 505	1 010 701						
1917	29,944,590		1,316,531	\$0,916	47,145,787		66,100		
1916 1915	22,970,860 22,216,182	. 67	1,332,474 1,348 086	.749	39,312,376 33,956,374	. 524	57,820 81,052		

Table 33—Concluded.

		Hand r	nining.		Machine mining.				
District and year	Shipping mines.		Local mines.		Shipping	mines.	Local mines.		
District and year.	Tons.	Average price per ton.	Tons.	Average price per ton.	Tons.	Aver- age price per ton.	Tons.	Aver- age price per ton.	
1914 1913 1912 1912 1911 1910 1910 1909 1909 1907 1905 1905 1905 1905 1905 1905 1905 1905 1905 1906 1906 1908	27,857,534 30,487,196 30,588,981 28,760,398 29,048,947 31,556,456 32,604,716 31,954,488 27,762,968 27,762,968 28,648,682 26,042,014 22,186,812	. 664 . 636	1,238,057 1,130,488 1,375,240 1,406,442 1,492,652 1,199,562 1,457,313 1,353,680 1,187,871 1,218,340 1,288,788 1,211,105 1,082,444	. 783	31,386,303 30,028,170 22,506,854 19,998,259 18,176,254 16,402,106 15,205,014 14,482,351 8,193,575 7,121,243 6,637,938	. 521 . 496 . 494 . 462 . 46	$200,350 \\ 43,205$	. 54 . 54 . 467 . 467 . 50 . 48 . 467 . 50	

<sup>\*</sup> Day work.

Table 34 shows the earnings of miners in shipping mines where no machines are used.

Table 34—Earnings of miners, hand mining—shipping mines.

District.	Number of miners.	Tons mined.	Average rate per ton.	Gross earnings.	Average earnings for year.
First Second Third Fourth Fifth Sixth Seventh Eighth Minth Tenth Eleventh Twelfth The State, 1917.	1,781 1,788 2,984 1,485 2,512 4,658 1,085 1,061 1,865 2,008 462 3,262 24,951	1,403,406 1,581,632 2,954,321 1,827,504 2,996,225 6,220,707 1,480,253 1,556,258 2,647,863 2,143,291 496,356 4,636,774	\$0.962 .924 .834 .731 .674 .675 .661 .65 .661 .634 .621 .621	\$1,350,285 1,461,941 2,463,280 1,336,000 2,019,942 4,200,270 978,447 1,011,078 1,750,237 1,357,811 308,237 2,879,437	\$758. 16 817. 61 825. 50 900. 00 804. 12 901. 73 901. 80 953. 95 938. 46 676. 20 667. 18 882. 72

Table 35 gives the earnings of machine men and loaders in exclusive machine mines.

Table 35—Earnings of machine men and loaders, machine mining—shipping mines, by districts.

District.	Number of machine- men and loaders.	Tons. mined.	Average rate per ton.	Gross earnings.	Average earnings, for year.
'irst	47	24,492	80, 76	8 18,614	8 396, 0
ceond	239	46,387	. 681	31,615	132.
hird	350	362,118	. 66	239,173	683.
ourth	551	721,218	. 661	476,669	865.
ifth	1,835	3,231,587	. 58	1,875,524	1,022.
ixth	692	1,403,299	. 591	829,350	1,198.
venth	4.736	8.740.256	. 591	5,168,491	1,091.
ighth	3,594	6,079,637	. 586	3,560,646	990.
inth	1,904	3,004,553	. 591	1,775,691	932.
enth	1,795	2,995,209	. 568	1,700,263	947.
leventh	9,609	15,539,125	. 551	8,562,157	901.
welfth	3,134	4,997,906	. 551	2,528.846	806.
The State	28,486	47,145,787	80, 568	\$26,767,039	\$939.

Table 36 shows the number of mines and machines and the tons produced in those mines where machines are used, by districts for the year and by years—1900-1917 inclusive.

Table 36—Machine mining—mines, men, machines and tons, by districts, for 1917 and by years, 1917-1900.

				Mines in	which	machi	nes are use	d.		
District and year.		Exc	lusivel	y.		In pa	rt.		Tota	ıl.
	Mines.	Men.	Ma- chines.	Tons.	Mines.	Ma- chines.	Tons.	Mines.	28 269 208 146 126 637 1,920 1,817 2,1,686 3,1,689 3,1,689 3,1,689 1,581 2,1,430 1,1,246 1,1,246 1,1,246 1,1,246 1,1,246 1,1,246 1,1,246 1,1,246 1,246 1,246 1,246 4,446 4,4	Tons.
First Second Third Second Third Fourth Fifth Sixth Seventh Eighth Nith The Seventh Eighth Nith Tenth Eleventh Tenth Eleventh Twelfth 1914 1915 1914 1915 1919 1910 .	1 4 4 1 1 6 2 2 14 13 100 7 7 322 8 98 98 98 98 97 98 60 61 61 55	356 1,478 1,021 6,810 4,160 2,097 1,743 31,618 29,546 22,769 11,743 31,618 22,544 822,769 14,754 14,454 12,258 12,357 6,858 6,137 4,635 3,691 4,635 3,691	1,378 1,316 1,274 1,333 1,065 957 854 839 771 754	6,406,571 4,903,184 4,393,052 4,460,025	2 2 2 5 5 5 6 6 6 7 7 7 7 8 10 7 7 7 7 8 10 7 7 7 7 8 10 7 7 7 7 8 10 7 7 7 7 7 8 10 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	3 111 111 277 522 477 177 588 1344 170		2 3 3 9 9 4 4 12 2 2 188 166 133 144 440 18 151 139 131 1410 140 107 101 185 101 101 85 66 67 66 64 63 66 66 66 66 66 66 66 66 66 66 66 66	12 34 33 3145 28 48 48 48 48 48 48 48 48 48 48 48 48 48	28, 01- 66, 387 381,08- 3,210,08- 3,210,08- 1,030,20- 8,750,122- 5,750,122- 1,997,90- 17,222,88(3),312,377,42 30,222,522 30,222,522 30,222,522 21,4490,45- 18,176,25- 18,17

#### EXPLOSIVES USED FOR BLASTING COAL.

Table 37 shows by districts the number of mines using explosives for blasting down the coal, the number of miners, tons produced, kegs of powder and pounds of permissible explosives used, where hand mining is done exclusively.

Table 37—Consumption of powder and permissible explosives for blasting coal, in shipping mines where hand mining is done exclusively.

District.	Number of mines.	Number of miners.	Number of tons.	Number of kegs of powder.	Pounds of permissible explosives.
First Second Third Fourth Fifth Sixth Seventh Lighth Ninth Tenth Eleventh Twellth	13 7 16 15 17 29 4 10 34 16 3	1,726 1,330 2,134 1,420 2,021 4,658 851 897 1,775 1,052 151 2,410	1,367,045 1,125,415 2,206,864 1,740,038 2,716,210 6,220,707 1,146,217 1,232,870 2,546,469 1,184,985 158,151 3,205,695	3,760 16,578 65,865 113,026 60,852 321,708 31,651 48,940 96,641 44,323 7,634 120,747	31 3,805 50 200 155 85 6,000
The State, 1917	181	20,425	24,850,666	931,734	10,32

#### PHYSICAL CHARACTERISTICS.

Table 38 is a list of all mines of the State showing the physical characteristics and output of each.

Table 38-Physical Characteristic of coal mines, 1917.

=					Physic	al el	19896	ter of 1	mines		
Number.	Name of operator.	Post-office address of mine.	Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	pe, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, elec- tric.	Mining—hand, machine, both.	Total tons.
1	BOND COUNTY. Pocahontas M. Co., No. 1 Total—1 mine		6	386	7. 6	Sh.	St	P. R.	м. & м.	на	107,895
1 2 3 4 5 6	BUREAU COUNTY.  St. Paul C. Co., No. 2 Springvalley C. Co., No. 3 Springvalley C. Co., No. 1 Springvalley C. Co., No. 5 Ill. Third Vein C. Co., No. 1 D. C. Brandt.	Cherry Springvalley. . do. Dalzell. Ladd Mineral	2 2 2 2 2 2 6	484 457 339 421 468 45	3.4	Sh.	St	L. W.	Mule Mule M. & M. M. & M. M. & M. Hd	Hd Both.	322,288 321,954 268,607 236,329 233,997 2,800

=	~	Physical character of mines									
					1	-		.01 01 1			
Number.	Name of operator.	Post-office address of mine.	Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seam- feet and inches.	Shaft, slope, drift.	Hoisting-steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, elec- tric.	Mining—hand, ma- chine, both.	Total ons.
7 8 9	T. H. Wilkinson. Nelson & Moran. W. J. Masters A. M. Mapes	Mineral Sheffield do do	6 6 6	12 50	4.6 4.6 4.6 4.6	Sl Dr. Sh. Sh.	St Ho. Ho. Ho.	P. R. P. R. P. R. P. R.	Hd Hd Hd	Hd Hd Hd	2,458 1,895 200 24
	Total—10 mines										1,390,552
	CASS COUNTY.		}								
1	Ed Knight	Beardstown	2	66	3.6	Dr.	Hd.	P. R.	Hd	Hd	1,550
	Total—1 mine										1,550
	CHRISTIAN COUNTY.						ļ				
1 2 3 4 5 6 7 8	Peabody Coal Co., No. 7. Peabody Coal Co., No. 8. Peabody Coal Co., No. 8. Peabody Coal Co., No. 21. Spfld, Dist. C. M. Co., No. 28. Penwell Coal Mining Co Smith-Lohr Coal M. Co. Pana Coal Co., No. 1. Assumption Coal & M. Co. Greenwood Coal Co.	KincaiddoStoningtonTaylorvillePanadododsdsdsdsdsd	6 6 6 6 6 6 6 6 7	365 480 735 721 720 1004	7.6 7.0 7.6 8.0 7.6 7.6 7.6 3.6 7.0	Sh. Sh. Sh. Sh. Sh. Sh. Sh.	St St St St St St St	P. R. P. R. P. R. P. R. P. R. P. R. L. W. P. R.	M. &. M M. & M. M. & M. M. & M. M. & M. Motor Motor Mule	Mc Mc Mc Hd Hd Hd Both,	734,733 564,311 448,248 315,854 282,521 271,687 123,005 70,170 11,638
	Total—9 mines										2,822,167
	CLINTON COUNTY.						ļ				
1	So. C., C. & M. Co., No. 9	New Baden	6	318	7. 0	Sh.	St	P. R.	М. & М.	Both.	499,640
3 4 5	So. C., C. & M. Co., No. 9 Breese Trenton Mining Co., Buxton. North Breese C. M. Co Breese Trenton M. Co., E. B. Consolidated Coal Co.	Beckemeyer Breesedodo	6 6 6	380 400	7. 0 7. 0	Sh. Sh. Sh.	St St St	P. R. P. R. P. R. P. R.	M. & M. M. & M. M. & M. M. & M.	ме ме ме на	319 630 278,229 234,396 94,699
	Total—5 mines										1,426,594
	FRANKLIN COUNTY.										
1 2 3 4 5 6 6 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21	FRANKLIN COUNTY.  Old Ben Coal Corp., No. 8. Bell & Zoller Mining Co  C., W. & Frank. C. Co., No. 1.  Old Ben Coal Corp., No. 9.  Old Ben Coal Corp., No. 10.  Old Ben Coal Corp., No. 11.  Old Ben Coal Corp., No. 10.  Old Ben Coal Corp., No. 10.  Old Ben Coal Corp., No. 10.  W. Frankfort C. Co., No. 1.  Sesser Coal Co.  John A. Logan Coal Co.  W. P. Rend Collieries Co.  By Products C. C., No. 19.  Taylor Mining Co., No. 5.  United States Fuel Co.  Taylor Collieries Co.  Taylor Collieries Co.  Western Coal Mining Co., No. 2.  Western Coal Mining Co., No. 9.	W. Frankfort Zeigler Orient	666666666666666666666666666666666666666	417 420 468 425 517 517 425 450 317 640 640 730 567 510 494 350 603 647	14. 0 9. 6 10. 0 9. 0	Sh.	stststststststst.	P. R. P. R.	Motor M. & M Motor M. & M	Me Both. Both. Me Hd	1,093,317 1,065,339 1,106,5,339 1,108,474 933,141 933,141 891,882 869,504 656,261 641,427 624,771 624,774 624,774 207,639 27,151 296,633 27,151 296,636 64,439 45,033 11,317,657
	Total—21 mines					1					1 1011,001

					Physic	eal el	arac	ter of 1	nines.		
Number.	Name of operator.	Post-office address or mines.	Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seam— feet and inches.	Shaft, slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, elec- trie.	Mining—hand, machine, both.	Total tons.
	FULTON COUNTY.										
1 2 3 4	Big Creek C. Co., No. 2 Silver Creek Colliery Co Big Creek C. Co., No. 4 Monmouth Coal & Mining	St. David Farmington Dunfermline.	5 5 5	60 48 90	4. 6 4. 0 4. 8	Dr. Sh. Sh.	St St St	P. R. P. R. P. R.	M. & M. M. & M. M. & M.	Both. Hd Both.	300,127 279,708 207,007
3 4 4 5 6 6 7 7 8 8 9 100 111 133 114 115 116 117 118 119 20 211 22 23 24 25 26 27 30 31 32 33 34 35 36 37 37 38 9 40 14 42 44 45 64 47 48 9 49	Big Creek C. Co., No. 2. Sliver Creek Colliery Co. Big Creek C. Co., No. 4. Monmouth Coal & Mining Monmouth Coal & Mining Alden Coal Co., No. 8. National Coal Mining Co. Star Coal Co., No. 8. National Coal Mining Co. Star Coal Co., No. 8. Simmons Coal Go., No. 8. Simmons Coal Co., No. 6. Alden Coal Co., No. 6. Alden Coal Co., No. 6. Alden Coal Co., No. 6. Spoon River Colliery Co. Maplewood C. Co., No. 1. Big Creek Coal Co., No. 5. Big Creek Coal Co., No. 6. Alden Coal Co., No. 6. Alden Coal Co., No. 1. Coal Creek Mining Co. Star Coal Co., No. 1. Neal Baxter John Coal Co., No. 1. Neal Baxter John Johnson Star Coal Co., No. 1. South & Lawson Spenny Coal Co. W. O. Falkenstein Eellpse Coal Co. Malewson Spenny Coal Co. W. O. Falkenstein Eellpse Coal Co. Raiph L. Wade Harry Porter M. R. Parks A. J. Gunnett H. G. Baxter Ross Parr Fred Lingenfelter Wm. Bath. W. Bath. U. Madard M. Harry Porter M. R. Brush J. M. Standard Andrew Weber Frank Tindall L. Wade Harry Porter M. R. Brush J. M. H. Brush L. A. Ratcliff W. A. Sheets Nick Bennett J. M. Bath. J. A. Ratcliff W. A. Sheets Nick Bennett J. M. Bath. J. A. Ratcliff W. A. Sheets James Grindle E. E. Post A. E. Wilson James Grindle E. E. Post A. E. Wilson J. A. Brown C. Leonard Frank Adkinson	Dunfermline Brereton Farmington do Cuba Canton Farmington Canton Canton Norris Farmington Cuba London Mills Farmington Cuba London Mills Farmington Cuba London Mills Farmington Cuba London Mills Farmington Cuba Fairview Cuba Fairview Cuba Fairview Cuba Farmington Cuba Storia do Canton Ellisville Canton Storia do Canton St. David Bluff City Fairview Canton Canton Canton Farmington Canton St. David Canton Canton Fairview Ganton Canton Fairview Ganton Canton Fairview Ganton Fairview Cuba Canton Fairview Cuba Canton Fairview Cuba Marietta Fairview Cuba Marietta Fairview Guba Cuba Cuba Cuba Cuba Cuba Cuba Cuba C	5 5555555556555555555555555555555555555	90 148: 788 100 344 126 150 1176 150 171 150 45 125 50 60 130 60 60 26 42 25 65 30 45 28 86 30 45 45 30 45 30 45 30 45	$\begin{array}{c} 4.6 \\ 4.0 \\ 0.1 \\ 4.0 \\ 0.1 \\ 4.0 \\ 0.1 \\ 4.0 \\ 0.1 \\ 4.0 \\ 0.1 \\ 4.0 \\ 0.1 \\ 4.0 \\ 0.1 \\ 4.0 \\ 0.1 \\ 4.0 \\ 0.1 \\ 4.0 \\ 0.1 \\$	Sh.	St.	P.R. R.	Mule Mule M. & C. M. & M. Mule M. & C. Motor M. & C. Mule Mule Mule Mule Mule Mule Mule	Hd Me Me Hd Both. Hd	207, 007  172, 443  163, 876  169, 978  137, 078  137, 078  137, 078  137, 078  120, 020  118, 717  102, 229  118, 717  102, 229  118, 717  102, 239  118, 717  102, 239  118, 717  102, 239  118, 717  102, 239  118, 717  102, 239  118, 717  102, 239  118, 717  102, 239  118, 717  102, 239  118, 717  102, 239  118, 717  102, 239  118, 717  102, 239  118, 717  102, 239  118, 717  102, 239  118, 717  119, 718  119, 7
50 51 52 53 54 55	Nick Bennett B. W. Dickson James Grindle E. E. Post A. E. Wilson Geo. Whitehead	Cuba. Bryant. Cuba. Bryant. Astoria. Lewistown	5 5 5 2 5	21  50	5, 0 5, 0 5, 0 5, 0 2, 8 5, 0	Sl Dr. Dr. Dr. Sl	Ho. Hd. Hd. Hd. Hd.	P. R. P. R. P. R. P. R. P. R.	Mule Hd Hd Mule Hd	Hd Hd Hd Hd	850 840 812 800 800 800
56 57 58 59 60 61	Geo. Goodman. Bartol Zabarae. Geo. Provard John Turner Ed. Stanley D. A. Brown	St. David Canton do Fairview Cuba	5 5 5 6 5	60	3. 0 5. 0 5. 0 5. 0 5. 0 5. 0	Sh. Dr. Dr. Dr. Dr.	St Hd. Hd. Hd. Hd.	P. R. P. R. P. R. P. R. P. R. P. R.	Hd Hd Mule Hd	Hd Hd Hd Hd Hd	775 750 750 700 680 650
62 63	C. Leonard. Frank Adkinson	IpavaBreeds	5		3. 0 4. 5	Dr. Dr.	Hd.	P. R. P. R.	Hd	Hd	640 617

Table 38—Continued.

=				_					_	-	
					Physic	al ch	arac	ter of r	nines.		
Number.	Name of operator.	Post-office address of mine.	Geological number of seam.	Depth of coal below the surface—feet.	Thickness of scam— feet and inches.	Shaft, slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, elee- tric.	Mining—hand, ma- chine, both.	Total tons.
70 71 72 73 74 75 76 77	Charles Raker Lewis E. Johnson John Ealy F. C. Rowden Isaac Hendee Isaac Man Harry Baxter E. A. Blackaby Thos Engle Alen Engle Borge Arthur Billings Peter Westerfield Draper Bros George Edgerly Ed. Rinkenbaure Yocum & Shields Fred Neuneker E. Kruzan Floyd Calhoun John Williams Wil	Lewistown. Canton Marietta Cuba Astoria. Cuba Cuba Astoria. Cuba Cuba Marietta Cuba Marietta Cuba Lewistown. Maple Mills Fairview do Lewistown. Bushneff Ipava Marietta Canton Cuba Cuba Lewistown. Sushneff Lewistown. Bushneff Lewistown. Bushneff Canton Canton Canton Canton Canton Maple Mills Canton Maple Mills Canton Maple Mills Canton Canton Canton Cuba Bushneff Conton Conton Conton Cuba Breeds Marietta Cuba Avon	552555555555555555555555555555555555555	56 30 60 40 50	4. 5 2. 4 2. 4 2. 6 2. 6 5. 0 4. 6 4. 10 2. 6	Dr. Sl Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr. D	Hd. Hd. Hd. Hd. Hd. Hd. Hd. Hd. Hd. Hd.	P.R. P.R. P.R. P.R. P.R. P.R. P.R. P.R.	Hd Hd Hd Hd	Hd Hd Hd Hd	600 600 5560 554 5550 529 4455 4450 4400 400 400 200 200 200 200 200 105 160 100 100 80 60 60 60 2,739,185
	GALLATIN COUNTY. Hickory Hill Coal Co	R No.1	5		4.6	Sl	St	P. R.	М. & С.	ме	62,829 53,316
3	Northern Coal Co. Frank Genor & Son. W. R. Chinn.	Equality	5 5	145 24	4.6 4.0	Sh.	St Ho.	P. R. P. R.	M. & C. Mule Mule	Hd	3,883
	Lee Siddens Wm. M. Strong Sisk, Flanders & White Jones & Martin		5 5 5 5	20		SI SI SI Sh.	St Ho. Ho. Ho.	P. R. P. R. P. R. P. R.	Mule Mule Mule Hand	Hd Hd Hd	2,292 915 800 700
	Elliott Bros. James T. Colbert. Spitzner & James.			25	5, 0 4, 6 5, 0 4, 0	Sl Sl Sl Dr.	Hd. Hd. Ho. Ho.	P. R. P. R. P. R. P. R.	Hand Hand Hand Mule	Hd Hd Hd	420 150 40 21
	Total—11 mines										125,366
1 2 3 4 5 6 7 8	Burl Wyatt. Frank Hopper. Whitehead Bros. Greenfield Mining Co. Jas. T. Adkins. Bert Smith	dododoGreenfieldRoodhousedododododododo	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	95 60 40	6.6 2.6 2.6 2.6	Dr. Sh. Sh. Dr. Sh. Sh. Sh.	Hd. Hd. Ho. St Hd. Hd. Hd. Hd.	P. R. P. R. P. R. P. R. P. R. P. R. P. R. P. R.	Hand Hand Hand Hand Hand Hand Hand Hand	Hd Hd Hd Hd Hd Hd Hd	2,000 1,200 1,144 953 420 350 346 163 28 6,604

-					Physic	eal ch	arac	ter of 1	nines.		
Number.	Name of operator.	Post-office address of mine.	Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seam— feet and inches.	Shaft, slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, elec- tric.	Mining—hand, ma- chine, both.	Total tons.
	GRUNDY COUNTY.										
2 3	Chi., Wilm. & Franklin Coal Co., No. 3 Wilm. Star Min. Co., No. 7 John & George Mitchell	S. Wilm'gton Coal City Morris	2 2 2	187 136 50	3. 0 3. 0 2. 6	Sh. Sh.	St St	L. W. L. W. P. R.	Mule M. & M. Hand	Hd Hd Hd	276,380 129,884 1,800
	Total—3 mines										408,064
,	HANCOCK COUNTY.				2.0	ar.		D. D.	77 1		0 500
2	Meredith Bros., No. 1 Jones & Ebens	do	2 2	45 50	3, 0	Sh.	Ho.	P. R.	Hand Hand	Hd	3,500 465
	Total—2 mines										3,965
	HENRY COUNTY.					(					
1 2 3 4 5 6 7 8 9 10 11 12	Herman, Carlson & Johnson Waterloo Coal Co. Grice, Jameson & Jackson. Hintz Bros. Stricher & Stuhlsatz. Arthur Ratellife. Peterson & Lamb Kewanse Cooperative C. Co. Ner In Main Coal Co. Ner In Main Coal Co. Henry Coal Co. James Endres.	Kewaneedododododododo	6 6 6 6 6 6 6 6 6 6 6 6	92 60 130 60 40 · 78 190 60 185 90	4. 0 4. 0 4. 0 4. 0 4. 0 4. 0 4. 0 4. 0	SI	St	P. K.	Mule Hand Hand Hand Hand Hand Hand Mule Hand Hand Hand Hand Mule Mule	Hd	9,307 6,512 5,656 4,220 4,029 3,634 3,120 2,989 2,077 2,036 1,510
	Total—12 mines										45,951
	JACKSON COUNTY.										
1 22 3 4 55 66 77 89 9 10 11 11 12 13 14 15 16 17 18	Gus Blair B. M. C. Co., No. 2	Hallidayboro. Murphysboro. dododododododo	6 1&2 2 2 1 & 2 6 6 6 6 6 6 6 6 6 2 1 1 2 2 2 1 1 1 1	56 50	6. 0 7. 0 8. 0	Sh. Sh. Sl. Sl. Sl. Sl. Sh. Sh.	St Ho. Ho. St Ho. Ho. Ho.	P. R. P. R. P. R. P. R. P. R. P. R. P. R. P. R. P. R.	Mule M. & M. Mule M. & M. M. & M. Mule Mule Mule Hand Hand Hand Mule Mule Hand Mule Mule Mule Mule Hand Hand Hand Hand	Hd Hd Hd Hd Hd Hd Hd Hd	287,228 246,465 99,687 87,745 65,422 7,000 3,000 3,000 2,355 1,350 650 660 360 360 360 360 350 266
1	Bott & Griner	Brighton	5	32	3, 0	Sh.	Ho.	P. R.	Hand	Hd	1,320
	Total—1 mine										1,320

Table 38—Continued.

-	-				Physic	al ch	arac	ter of n	nines.		
Number.	Name of operator.	Post-office address or mines.	Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Shaft, slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, eable, elec- tric.	Mining—hand, machine, both.	Total tons.
	JOHNSON COUNTY.										
1 2 3	A. S. Hindley P. M. Ward A. J. Dougherty	Creal Springs. N. Burnside do	3 3	30	3. 6 3. 6 3. 6	Sl Sl Sl	Ho. Ho. Hd.	P. R. P. R. P. R.	Hand Hand Hand	Hd Hd	15,000 2,373 450
	Total—3 mines										17,823
	KNOX COUNTY.	777-42-				De	TI A	D D	Hand	HA	12 000
2 3 3 4 4 5 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Geo. & Chas. Horkstom. F. H. Milan. Rodell & Mitchell. Chas. G. Bangstrom. W. H. Bowman & Co. Charlie Folkenroth. Ed. Horkstrom Jesse Hillier Fonnel & Wilkie. N. C. Norburg. H. Taylor. A. D. Morgan. Franklin Homer Morse, Jr. Franklin Homer Morse, Jr. Franklin Homer Morse, Jr. Ed. Peterson. A. J. Nelson. James Matson. Ed. Peterson. A. J. Nelson. J. E. Walsh. G. A. Rice.  Total—21 mines.  La SALLE COUNTY. Oglesby Coal Co. Coal Coal Coal Coal Coal Coal Coal Coal	Galesburg Wataga do Victoria Rapatee Victoria Wataga Oneida Rapatee Victoria Kanatee Wataga Oneida Kanatee Victoria Kanatee Victoria Kanatee Victoria Coneida Victoria Victoria Coneida Victoria Victoria Ogelesby Ogelesby	665556655666666666666666666666666666666	70 8 9 200 255 6 48	4.0 3.8 4.0 4.4 3.9 3.7 6.6 4.0 4.6 4.9 2.11 4.6 4.4 2.8 4.6 4.6 4.6	Dr. Sl. Dr. Dr. Dr. Sl. Dr. Sl. Dr. Sh. Sh. Dr.	Hd. Hd. Hd. Hd. Hd. Hd. Hd. Hd. Hd.	P. R. P. R.	Hand.	Hd Hd Hd Hd Hd Hd Hd Hd Hd	13,000 6,400 3,650 2,600 2,600 2,600 2,130 1,621 1,082 1,071 687 600 600 539 522 322 5270 140 60 38,940
2	LaSalle County Carbon Coal Co., No. 5. LaSalle County Carbon Coal	LaSalle			3.6			1	Mule	1 1	189,860
4	LaSalle County Carbon Coal Co., No. 1. LaSalle County Carbon Coal	do				Sh .			M. & M		180,220 97,589
ŧ	Co., Union Illinois Zinc Co., No. 3 LaSalle County Carbon Coal	Peru		336	3. 2				Mule		72,645 60,853
2	Illinois Zine Co., No. 1 G. & J. Coal Co., No. 1	Deer Park Seneca		440	3.6 4.0	Sh. Sh. Sh.	St St St	L. W L. W L. W	M. & M. Mule Mule Mule	Hd Hd	53,524 22,374 11,125
13	Mathiessen & Hegeler Zinc Co., No. 1 Co., No	.do Ottawa		5 312 125 7 60 7 59 2 7 73 7 24 7 130 7 2 7 38 6 5 7 60 8 6 7 60 8 6 7 7 3 8 6 7 6 7 7 3 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6	2.8 4.8 5.0 2.0 2.0 5.6 5.6 5.6 4.0 3.6 4.0 3.0 4.0	St. Sh. Sh. Sh. Dr. Dr. Dr. Dr.	St Ho. St Ho. Ho.	P. R. P. R. P. R. P. R. P. R. P. R.	M. & M Mule Hand. Mule Hand. Hand. Hand. Hand. Hand. Hand. Mule Mule. Mule. Mule. Mule. Mule. Mule.	Hd Hd Hd Hd Hd Hd	3,091 1,942 1,706 1,670 1,185 1,000

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					Physi	cal cl	harac	ter of 1	mines.		
Number.	Name of operator.	Post-office address of mine.		Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Shaft, slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Hanlage—hand, mule, cable, elec- trie.	Mining—hand, ma- chine, both.	Total tons.
26 27 28 29 30 31 32 33 34 35 36 37	Grover Gilbert. Thomas Mitchell. Herrick Clay Mfg. Co. Fred Lawton. Brooker Bros Thomas Mooney Charles Hendee. Charles Baldwin. W. Akers. Lottis Liptak. Heenanville Coal Co. Total—37 mines.	Streatordododododododo	7 7 7 7 7 2 2 2 3 7 3 7 7 7	300 300 40 112	3.8 5.0 2.0 4.4 2.7 2.0 2.0 4.6 2.0 4.6 4.0 5.0	Dr. Dr. Dr. St. Dr. Dr. St. St. St. Sh.	Hd. Hd. Hd. Hd. Hd. Hd. Hd. Hd. Ho. St	P. R. P. R. P. R. P. R. P. R. P. R. P. R. P. R. P. R. P. R.	Hand Hand Hand Hand Hand Hand Hand Hand Hand Hand	Hd Hd Hd Hd Hd Hd Hd Hd Hd	300 250 200 156 145 135 127 125 120 50 35 35
	LIVINGSTON COUNTY.										
1 2 3 4 5 6	Murphy, Linckey & Kasher Coal Co., No. 1. Fairbury Coal Co. Streator Clay Míg. Co. Barr Clay Co. Munts Bros. Coal Co. Fairbury Miners Co-opera- tive Coal Co. Wonders Bros. McMillen & Son. Joe Blank. James Lucas.	Pontiac Fairbury Streator do do	6 7 7 7 7	210 65 80 60					Mule Mule Cable Hand		38,398 27,000 29,785 19,404 16,775
7 8 9 10	Wonders Bros. McMillen & Son. Joe Blank James Lucas.	StreatordodoManville	7 7 7 1 2	165 25 12 20 20	4. 0 4. 2 4. 6 4. 0 3. 0	Sl Sl Sl Dr.	St St St Hd.	P. R. P. R. P. R. P. R. P. R.	Hand Hand Hand Hand Hand	Hd Hd Hd Hd	15,014 4,000 1,200 160 60
	Total—10 mines										151,796
1 2 3	LOGAN COUNTY.  Latham Coal & Mining Co Citizens Coal & Mining Co Lincoln Mining Co., No. 1	Lincolndododo	5 5 5	300 271 272	5. 0 5. 2 5. 4	Sh. Sh. Sh.	St St St	P. R. P. R. P. R.	M. & M. Mule M. & C.	Hd Hd Hd	256,642 177,849 162,020
	Total—3 mines										596,511
	MACON COUNTY.										
1 2 3	Manufacturers & Consumers Coal Co Decatur Coal Co., No. 2 Niantic Mining Co	Decatur Niantic	5 5 5	560 600 365	4. 6 4. 6 5. 0	Sh. Sh. Sh.	St St St	L. W. L. W. P. R.	Mule Mule Mule	Hd Hd Hd	180,105 73,937 4,962
	Total—3 mines										259,004
1 2 3 4 5 6 7 8 9 10 11 12 13	MACOUPIN COUNTY. Superior Coal Co., No. 3. Superior Coal Co., No. 2. Superior Coal Co., No. 1. Consolidated Coal Co., No. 14 Consolidated Coal Co., No. 15 Royal Colliery Co. Montour Coal Co., No. 403. Mt. Olive Coal Co., No. 5. Carlinville Coal Co., No. 6. Montour Coal Co., No. 6. Ridge Coal Mining Co. Ed. A. Bauser	GillespiedodostauntondoMt. Olive. Virden. Girard. Mt. Olive. Carlinville. Virden. Gerenridge. Bunker Hill.	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	350 340 340 276 350 364 305 360 420 265 324 7 245	7. 6 7. 6 7. 6 7. 0 7. 0 7. 0 7. 0 8. 0 7. 0 8. 0 7. 0 8. 0 7. 0	Sh.	st st st st st st st st st	P. R. P. R.	M. & M. M. & M.	Me Me Me Me Me Me Hd Both. Hd	1,158,796 1,071,283 885,467 760,643 692,636 610,040 508,097 318,578 264,515 175,344 126,917 6,517 9,867

Table 38—Continued.

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				]	Physic	al ch	arac	ter of n	nines.		
Number.	Name of operator.	Post-office address or mines.	Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seam-feet and inches.	Shaft, slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, clec- tric.	Mining—hand, ma- chine, both.	Total tons.
14 15	C. E. Pitchford J. J. Harbaugh	Rockbridge Chesterfield	6	75 42	7.6 4.6	Sh.	Ho. Ho.	P. R. P. R.	Motor Motor	Hd	1,620 505
	Total—I5 mines										6,590,825
	MADISON COUNTY.			1							
	New Staunton Coal Co., No.	Livingston	6	287	6.0	Sh.	St	P. R.	м. & м.	Ме	937,004
2	Mt. Olive & Staunton Coal Co., No. 2 Donk Bros. Coal & Coke Co.,	Staunton	6	317	6.10	Sh.	St	P.R.	м. & м.	Мс	901,881
4	No. 2. Donk Bros. Coal & Coke Co.,	Maryville	6	246	7.6	Sh.	St	P. R.	M. & M.	Мс	886,317
5	No. 1	Collinsville		140 198	6.6 8.0	Sh.	St St	P. R. P. R.	M. & M. M. & M.	Hd Mc	548,977 410,721
6	No. 2	Glen Carbon.	. 6	125	5. 6				M. & M. M. & M.		386,880
8		Worden			7. 0 5. 6				M. & M.	1	324,295
9	No. 1 Mt. Olive & Staunton Coal Co , No. 1	Staunton			6. 2	Sh.	St	P. R	M & M.	Me	259,591
10	City Coal Co. No 3	Collinsville	6	180	8. 0 6. 6	Sh.	St	P. R. P. R.	M. & M. Mule	Hd Mc	144,297 110,038 43,317
13	Abbey Coal Corp., No. 1	Collinsville	6	135 200	5. 6 6. 6	Sh.	St	P. R. P. R.	M. & M. M. & M. Mule Mule Mule Mule Mule Mule Hule Hule Hand Hand Hand	Hd	35,444 23,165
14	East Side Coal Co Beck-White Coal Co	Edwardsville	6		6.0 6.4	Sh.	St St	P. R. P. R.	Mule	Hd	19,580 1,280 11,568
16	Bunker Hill Coal Co	Collinsville	6		6.6	Sh.	St	P. R. P. R.	Mule	Mc	11,568 6,683
18	Bullock Bros	do	6	170	7. 0 5. 6	Sh.	St	P.R.	Mule	Hd	5,982
20	George Kable	Moro	. 6	90	5. 6	Sh.	Ho.	P. R.	Hand	Hd	3,649 2,200
22	Benj. Eccles Ernest H. Rink	Bethalto	1 2	70	3. 6 3. 2	Sh.	Ho.	P. R.	Hand	Hd	800 217
23	Chas. Brueggemann	do	6		3.8	St	Hd.	P. R.	Hand.	Hd	180 152
28	East Side Coal Co. Beck-White Coal Co. Bunker Hill Coal Co. Hlydraulie Press Brick Co. Bullock Bros. Fred Humm. George Kable. Benj. Eceles. Ernest H. Rink. Chas. Bruegemann. Henry Bauer. J. A. Decoto. John Kowalzski.	Worden	. 5		6.0	Dr. Sl	Hd.	P. R. P. R.	Hand Hand Hand	Hd	35 8
	Total—26 mines										5,044,261
	MARION COUNTY.										
	Marion County C. Co., No. 1 Chicago-Sandoval Coal Co.	Glenridge	. 6				1		М. & М.		
					6.0 6.6	Sh.	St	P. R. P. R.	M. & M. M. & M.	Hd Mc	281,695 239,369
4	Odin Coal Co. Chieago-Sandoval Coal Co. No. 1.	Sandoval	. 6	615	5.8	Sh.	St	P. R.	Mule	Hd	10,097
	Total—4 mines	I	1								1,088,619
	MARSHALL COUNTY.										
-	Toluca Coal Co., No. 1. 2 Wenona Coal Co., No. 1. 3 Aeme Coal Co., No. 3. 4 F. G. Hadel & Sons 5 John H. Pearson 6 R. H. Ingram. 7 Wm. Crew 8 Geo. W. Davis	Toluca Wenona	. 2	512 552	2. 10 3. 4	Sh.	St	L. W.	M.&M Mule Mule Hand Hand Hand Hand	Both.	2S1,638 170,925
;	Acme Coal Co., No.3	Sparland	7		3.8	Dr.	Ho.	P. R.	Mule	Hd	13,621 1,790
	John H. Pearson	Henry	- 2		3, 6	Dr.	Hd	P.R.	Hand.	Hd	1,565 1,500
	7 Wm. Crew	do			4.0	Dr.	Hd	P.R.	Hand	Hd	338
	8 Geo. W. Davis				3.8	Dr.	nd	P.R.	nand.	nd	335

		Physical character of mines.									
Number.	Name of operator.	Post-office address of mine.	Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seam— feet and inches.	Shaft, slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, elec- tric.	Mining—hand, ma- chine, both.	. Total tons.
-	M'LEAN COUNTY.										
1 2	McLean County Coal Co Colfax Coal Co	Bloomington. Colfax	6	540 400	3.8 6.0	Sh. Sh.	St	L. W. P. R.	Cable Mule	Hd	77,083 12,329
	Total—2 mines										89,412
	MENARD COUNTY.										
2 3	Athens Dawson Coal Co., No. 1. South Mountain Coal Co. Johnson Valley Coal Co. John W. Mallergren, Jr. John Mallergren, Sr. Galloday Bros. East View Coal Co. Brand & Walker John Grosball.	Fancy Prairie		80 60 61	6. 0 6. 0 5. 0 6. 2 6. 0 5. 0 5. 0 5. 0	Sh. Sh. Sh. Sh. Sh. Sh. Sh.	St St Ho St St St St	P. R. P. R. P. R. P. R. P. R. P. R. P. R. P. R.	Mule Hd Hd Mule Mule Mule Hd Hd Hd	Hd Hd Hd Me Hd Hd Hd	155,878 8,663 6,720 6,332 6,000 5,650 5,120 2,000 920
	Total—9 mines										197,283
	MERCER COUNTY.										
3 4 5 6 7 8 9 10	Alden Coal Co., No. 7. Coal Valley M. Co., No. 3. Coal Valley M. Co., No. 2. Hydraulic Frees Brick Co. W. P. Williams McCrame & Lee Doeherty Bros. B. B. Peterson. Wm. Rodansky James Blaine Osear Thomas John Taylor J. M. Brown.	do Sherrard Aledo do Matherville. Preemption Cable Viola do Matherville.		210 125 70 56 160 65 15 8 100	4.0 4.0 4.6 4.0 4.0 3.0 5.4 4.0	Sh. Sl Sl	Ho. Ho. Ho.	P. R. P. R. P. R.	M. & M. Cable C. & M. Mule Hd Cable Hd Hd Hd Hd Hd Hd Hd Hd	Hd Hd	101,903 98,209 37,180 10,000 6,034 3,700 2,600 1,345 1,263 1,240 203 75
	Total—13 mines										264,452
	MONTGOMERY COUNTY.										
1 2 3 4 5 6 7 8	Shoal Creek C. Co., No. 1 C. & E. J. C. P. No. 14. Nokomis Coal Co., No. 1. C. & E. J. C. P., No. 10. C. & E. J. C. P., No. 11. Hillsboro Coal Co. C. & E. J. Coal Properties. Coffeen Coal M. Co., No. 2. C. & E. J. C. P., No. 15.	Witt. Nokomisdo. Hillsboro	6 6	585 638 650 6467 450 540	8. 6 8. 4 8. 0 7. 0 7. 6 8. 0 7. 6	Sh. Sh. Sh. Sh. Sh.	StStStStStSt	P. R. P. R. P. R. P. R. P. R. P. R.	M. & M. Motor Motor Motor Motor Motor Motor M. & M. Motor	Mc Mc Mc Mc Both.	680,946 645,778 605,868 594,411 481,224 328,839 167,163 97,390 40,057
	Total—9 mines	Dpi mgo	(								3,641,676
	MOULTRIE COUNTY.										
1	Lovington C. M. Co., No. 1.	Lovington		912	8, 6	Sh	. st	P. R.	м. & м	. Hd	239,818
	Total—1 mine										239,818

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					Physi	cal c	harac	ter of	mines.		
Number.	Name of operator.	Post-office address of mines.	Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seamfeet and inches.	Shaft, slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, elec- tric.	Mining—hand, machine, both.	Total tons.
	MORGAN COUNTY.										
$\frac{1}{2}$	W. F. Fisher Charles Wagstaff	Murrayville	5 5	80 40	4. 0 4. 0	Dr. Sh.	Hd. Ho.	P. R. P. R.	Hd	Hd Hd	700 300
	Total—2 mines										1,000
1	Total—2 mines.  PEORIA COUNTY.  Wolschlag Co-oper. C. Co. Clark C. & C. Co., No. 2. M. E. Case Coal Co. Crescent Coal Co. No. 1. Logan Coal Co. Crescent Coal Co. Newsam Bros., No. 4. Warsaw Coal Co. Newsam Bros., No. 4. Warsaw Coal Co. Collier Co-oper. C. Co., No. 1. Mapleton Coal Co. German Coal Co. German Coal Co. German Coal Co. German Coal Co. To Coal Co. Winters Coal Co. Trank F. Schmidt & Son. Martin Coal Co. Frank F. Schmidt & Son. Martin Coal Co. Monn Coal Co. Monn Coal Co. Hibbard & Snedden C. Co. E. Potter & Son. Martin Coal Co. Woln Cook, Jr. Pleasant Heights Coal Co. Collear Bros. McKinley Coal Co. James Schmidt Lee. Snider & Son. Martin Coal Co. Martin Coal Co. Martin Coal Co. Monn Cook, Jr. Pleasant Heights Coal Co. Collear Bros. McKinley Coal Co. James Schmidt Lee. Snider & Son. Umholtz & Johnson Harry Bramer George M. Aman, Jr. George Wantling. Clarkson & Henning. Hammann & Vicory R. C. Crew. J. W. Miller Alvia E. Reed Harry J. Green Fred Snider Wm. Pool. Loronzo Clarkson. Birl Tucker R. J. Scott. Ed. Slone. Albert Warner Frank Harlin. Wayman & Savage Fred Martin. John Danbert. A. S. Plerce Wm. Cramer Jayne Murphy & Wagner. Lemasters Bros. Barney Daloy.	Peoria	5		4.0	SI	St	P. R.	M. & M.	Hd	273,315
3	Clark C. & C. Co., No. 2 M. E. Case Coal Co.	Peoria	5	185 18	4.0	Sh.	St	P. R. P. R.	M. & M. M. & M. Motor M. & M. Mule M & M. Motor M & C Cable	Hd	232,594 221,254
5	Logan Coal Co	Hanna City	5 5 5	200 240 145	4. 2	Sh.	St	P. R.	M. & M. M. & M.	Mc	158,340 118,466 110,587
7 8	Warsaw Coal Co. Collier Co-oper, C. Co. No 1.	Edwards	5 5	100 120	4. 5 4. 6	Dr.	St	P. R.	M & M.	Hd	94,256 61 314
10	Mapleton Coal Co. German Coal Co.	Mapleton	5	150	4. 8 4. 6	ši sl	St St	P. R. P. R.	M & C Cable	Hd Mc	28,454 27,619
11	No. 1	Kingston M	5	140 59	4.6	Dr.	St	P. R.	Mule	Hd	26,122
13	Winters Coal Co	Bartonville	5 5	88 182	4.6	Sh.	St	P. R.	Mule	Hd	37,862 23,654 19,549
15 16	Frank P. Schmidt & Son Ernest Colwell	Peoria Princeville	5 6	75	4. 4	Dr. Sh.	Ho.	P. R. P. R.	Mule	Hd	13,080 9,972
17 18	Martin Coal Co	Peoriado	5	400 100	4. 0 4. 0	Sl Sh.	St	P. R. P. R.	Mule	Hd	9,800 9,154 9,020
19 20	Hibbard & Snedden C. Co E. Potter & Son	do Mapleton	5	26	4. 0 5. 0	Sl Dr.	St Ho.	P. R. P. R.	Mule	Hd	9,020 8,521
22	Limestone Coal Co	Peoria	5	70	3. 0 4. 5	Sh.	St.	P. R. P. R.	Mule	Hd	7,328 7,240
24	Pleasant Heights Coal Co	do	5	130 70	4. 4	Sh.	Ho.	P. R.	Hd	Hd	6,801 6,260
26	McKinley Coal Co	Elmwood	5 5	125 250	3. 10	Sh.	St	P. R.	Hd	Hd	4,120 3,500
28	Lee, Snider & Son	do	5	75	4. 4	Sl	Ho.	P. R.	Hd	Hd	2,985 1,800 1,800
30 31	Harry Bramer	Mapleton	5	120 85	4.6	Sl Dr.	Ho. Ho.	P. R. P. R.	Mule	Hd	1,724 1,494
32 33	Thomas Mohn. George Wantling	Peoria	5	90	4. 0 4. 0	Sl Sh.	Ho. St	P. R. P. R.	Mule	Hd	1,477 1,400
34 35	Clarkson & Henning Hammann & Vicory	Edwards Peoria	5	500 300	4. 0 4. 0	Dr. Sl	Hd. Ho.	P. R. P. R.	Hd Mule	Hd	1,250 1,100
36 37	J. W. Miller	Laura	7 6	33	3. 8 4. 0	Sh.	Hd. Ho.	P. R. P. R.	Hd	Hd	948 916 880
38	Harry J. Green	Hanna City	5 6 5	400	4.6	Dr.	Hd.	P. R.	Hd	Hd	850 850 750
41	Wm. Pool	Edwards	6	70 75 100	4.6	Dr.	Ho.	P. R.	Hd	Hd	729 641
43	Birt Tucker	Brimfield Oak Hill	6 5	25 400	4.8	Sh. Dr.	Ho. Hd.	P. R. P. R.	Hd	Hd Hd	520 513
45 46	Ed. Slone Fusser Bros	do Brimfield	5 5	300 75	4. 0 3. 0	Dr. Dr.	Hd. Hd.	P. R. P. R.	Нd Нd	Hd	500 425
47 48	Albert Warner	Hanna City Chillicothe	5 7	300 300	4. 0 3. 0	SI Dr.	Hd. Hd.	P. R. P. R.	Hd	Hd	400 350
49 50	Wayman & Savage Fred Martin	Peoria	6 5	261	4. 6	Dr.	Hd.	P. R.	Hd	Hd	350 250 225
52	A. S. Pierce	Peoria	6 5 6	150 300 200	5. 6 4. 4	SI	Ho.	P. R.	Mule	Hd	225 225 197
54 55	Jayne Murphy & Wagner	Mapleton	5 5	60 300	4.6	Sl Dr	Ho Hd	P. R. P. R	Mule	Hd	160 150
56	Barney Daley	Oak Hill	5	100	4. 0	Dr.	Ĥd.	P. R.	M. & C. Cable Mule Mule Hd Mule Mule Mule Mule Hd Mule Hd Mule Hd Mule Hd	Hd	89

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					Physic	al ch	arac	ter of r	nines.		
Number.	Name of operator.	Post-office address of mine.	Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seam- feet and inches.	Shaft, slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, elec- tric.	Mining—hand ,ma- chine, both.	Total tons.
57 58 59 60	Clark & Murdock James Stear Harry Barr James Cox	Brimfield Peoria Edwards Hanna City	6 6 5 6	77 40 70	4. 8 4. 6 4. 0 4. 6	Dr. Dr. Sl Dr.	Hd. Hd. Hd. Hd.	P. R. P. R. P. R. P. R.	Hd Hd Hd	Hd Hd Hd	60 50 40 25
	Total—60 mines										1,553,455
2 3 4 5	FERRY COUNTY.  Majestic Coal & Coke Co.  Security C. M. Co., No. 1.  Paradise Coal Co.  Willis Coal & M. Co., No. 1.  Ritchey Coal Co.  St. Louis, Coulterville Coal	do Willisville Pickneyville.	6 6 6 6	408 90 365 86 142	9. 0 7. 6 7. 10 6. 0 6. 6	Sh. Sh. Sh. Sh. Sh.	St St St St	P. R. P. R. P. R. P. R. P. R.	Motor M. & M. M. & M. M. & M. Mule	MC	599,540 550,261 483,483 339,265 156,504
6 7 8 9 10 11 12 13 14 15 16 17 18	St. Louis, Coulterville Coal  *Co., Vulcan  *Crown C. M. Co., B. E.  Wilson Coal Co.  Collier Coal Co.  Saley Bros. C. C., Diamond  Soper Coal Co.  Montgomery Coal Co.  Schn-ider Coal Co.  Hale Coal Co.  F. J. Howell Coal Co.  Harvey & Sons.  House Bros. Coal Co.  Dry & Revelle.  Norris & Sons.	Coulterville Craig Cutler Tamaroa Sunfield Cutler Pinckneyville do do Duquoin do St. John Duquoin do	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	90 80 22 24	5. 0 6. 0 7. 0 6. 8 6. 0 6. 3 7. 0 5. 11 5. 10	Sh S	St St St St St St Ho	P.R. P.R. P.R. P.R. P.R. P.R. P.R. P.R.	Mule Motor Mule Mule Mule Mule Mule Mule Hd Hd Hd Hd Mule	Hd Hd Hd Hd Hd Hd Hd Hd Hd Hd	98,359 80,496 47,453 37,332 32,238 25,405 10,464 7,113 6,418 1,841 959 200 175 55
	Total—19 mines										2.477,561
1	PUTNAM COUNTY.	Granvilla	2	488	3, 4	Sh	St.	I. W	Mule	Hd	427,562
2	St. Paul Coal Co., No. 1 B. F. Berry C. Co., No. 1		2	505		Sh.	St	L. W.	Mule	Hd	284,973
	Total—2 mines									1	712,535
2	Willis C. & M. C. No. 6 Illinois Fuel Co., No. 4 Moffat Coal Co.	Sparta	. 0	80		Sh. Sh.	St St	P R. P. R. P. R.	M. & M. M. & M. Mule	Ме Ме Ме	261,444 240,460 189,282
8 9 10 11 13 14 14	Co., No. 2. Wilson Bros. Coal Co., No. 7 Tilden Coal Co., Crystal Randolph Co. Coal Co. West Side C. & M. Co. Tilden Coal Co., Tilden Wilsen Coal Co., Tilden Wilsen Coal Co., Tilden Ruy & Co. John Adams Coal Co. John Adams Coal Co. J. W. Bixby. Edward Jones & Son.	Tilden. Sparta. Tilden. Coultervilledo Tilden. Sparta. do Percydo Willisville. Spartado		125 6 320 196 100 5 100 5 50	6. 0 6. 8 6. 0 6. 0 5. 6 6. 0 4. 8 6. 0 4. 8	Sh Sh Sh Sh Sh Sh Sh Sh	St	P. R. P. R. P. R. P. R. P. R. P. R. P. R.	Mule Mule Mule	Both. Hd	5,600 4,469 4,000 3,400
	Total—16 mines										1,102,408
	Pryce Coal Co. David Cook. Barak Bros. & Kuhlman.	Coal Valley . Hampton Coal Valley .		1 122 1 100 1 150	4. 0 3. 0 4. 0	Sh. Sl.	St Ho. St	P. R. P. R. P. R	Mule Hand. Mule	Both. Hd	20,000 17,000 7,109

		Physical character of mines.									
					Pnysi	car c.	narac	ter or	mines.		
Number.	Name of operator.	Post-office address or mines.	Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Shaft, slope, drift.	Holsting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, elec- trie.	Mining—hand, machine, both.	Total tons.
4 5 6 7 8 9	Fredrick & Gramenz Stocks & Schadt. Sommerson & Sievers. J. L. Donahoo Moline Coal Mining Co. Stone Bros. August Von Ach.	Coal Valley Carbon Cliff Coal Valley do Moline Carbon Cliff Hampton	1 5 1 1 1 1	26 25 60	4, 0 3, 8 3, 8 5, 0 3, 6 4, 0 3, 8			P. R. P. R. P. R. P. R. P. R. P. R.	Mule Hand Mule Cable Hand	Hd	3,768 2,678 2,541 1,955 1,491 650 535
	Total—10 mines  SALINE COUNTY.										57,727
1 2 3 4 5 6 7 8 9	Saline County Coal Co., No. 3 O'Gara Coal Co., No. 9. 1. Wasson Coal Co., No. 1. O'Gara Coal Co., No. 1. O'Gara Coal Co., No. 10. J. Dering Coal Co., No. 3. O'Gara Coal Co., No. 1. Saline County Coal Co., No. 2. Saline County Coal Co., No. 6. Harrisburg-Saline Col. Co., No. 6.	Harrisburgdo. WassonHarrisburgdo. Harrisburgdo dodododododo	55555555555555555555555555555555555555	270 152 325 392 406 450 311 101 339	5. 6 6. 6 5. 6 4. 8 4. 10 5. 6 5. 6 5. 6	Sh. Sh. Sh. Sh. Sh. Sh.	St St St St St St St	P. R. P. R. P. R. P. R. P. R. P. R. P. R. P. R.	M. & M. M. & M.	Mc Mc Mc Mc Both. Mc Both.	494,528 458,934 384,555 348,543 341,680 341,344 316,731 255,623 235,151
11 12	No. 15 O'Gara Coal Co., No. 8 Wasson Coal Co., No. 2	do Eldorado Carriers Mills.	5 5 5	58 393 40	5. 6 4. 8 5. 0	Sh.	St St	P. R. P. R.	M. & M. M. & M. M. & M.	Ме Ме	222,865 194,932 176,351
14 15	No. 15 O'Gara Coal Co., No. 8. Wasson Coal Co., No. 2. Harrisburg Big Muddy Coal Co., No. 12. O'Gara Coal Co., No. 4. O'Gara Coal Co., No. 3. Harrisburg Big Muddy Coal Co., No. 14.	Harrisburg dodo	. 5 5	415 213 233	5. 0 6. 0 6. 0	Sh. Sh. Sh.	St St St	P. R. P. R. P. R.	M. & M. M. & M. M. & M.	Мс Мс	171.576 160,381 154,669
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	Harrisburg Colliery Co. Durham Coal Co., No. I. Lone Star Coal Co. Dorrisville Coal Co. Elder & Bixler Jess Allen. W. J. Fife. Job Ingrams. B. J. Mores. B. Mores. B. Mores. B. L. Clemments. Thomas Osburn. John Reynolds. Jess Rayner Louis Dunn. James Yates. John Karsen. John Yates. J	do . Harco . Galatia . Garriers Mills . Dorrisville . Carriers Mills . Equality . Carriers Mills . Equality . Carriers Mills . Harrisburg . Stonefort . Equality . do . Eagle . Equality . Carriers Mills . Carriers Mills . Carriers Mills . Carriers Mills . Land . Equality . Carriers Mills . Land . Equality . Land . La	55775555557777 5555557777	137 365 47 60 16 35 25 20 20 20 20 40 20 40 20 40 20 20 20 20 20 20 20 20 20 2	5. 2 4. 8 5. 0 4. 4. 10 4. 0 4. 0 4. 0 4. 0 4. 0 4. 0 4. 8 3. 8 4. 4 4. 0 9. 0 3. 8 4. 6	Sh. Sh. Sh. Sl. Sl. Sl. Dr. Sh. Dr. Sl. Dr. Sl. Dr. Sl. Dr. Sl. Dr. Sl. Sl. Sl. Sl. Sl. Sl. Sl. Sl. Sl. Sl	St St St Ho. Ho. Ho. Ho. Ho. Ho. Ho. Ho. Ho.	P.R. P.R. P.R. P.R. P.R. P.R. P.R. P.R.	Mule Mule Mule Mule Mule Hand Hule Hand Hand Hand Hand Hand Hand Hand Hand Mule Mule Mule Mule Mule Mule Mule Mule	Mc Hd Both. Hd	143,390 54,835 40,396 16,550 3,400 3,176 2,500 700 700 650 598 480 375 248 100 70 42,500 4,530,903
1	SANGAMON COUNTY, Madison Coal Corp., No. 6	Divernon	6	325	8.0	Sh	St	P. R	м. & м.	Mc.	726,319
2	Madison Coal Corp., No. 6 Chi., Wilm. & Franklin Coal Co, No. 1		6	300	7. 8		St		M. & M.	1	676,980
3	Co, No. 1.  Spri igfield Dist. Coal Mining Co., No. 2.  Springfield Dist. Coal Mining Co. No. 2.	Riverton	6	238	5.9	Sh.	St	P. R.	м & м.	Hd	500,517
4	ing Co., No. 4	Auburn	6	302	8, 0	Sh.	S	P. R.	м. & м.	Hd	454,700

5				I							
					Physic	al er	arac	ter of r			
Number.	Name of operator.	Post-office address of mine.	Geological number of seam.	Depth of eoal below the surface—feet.	Thickness of seam—feet and inches.	Shaft, slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room	Haulage—hand, mule, cable, elec- tric.	Mining—hand, ma- ehine, both.	Total tons,
5 6 7 8	Jones & Adams Coal Co Peabody Goal Co., No. 6 Chicago & Springfield C. Co. Wilcoxson C. & C. Co., No. 2 Springfield Dist. Coal Min-	Springfield Sherman Springfield do	5 5 5	204 220	6. 0 6. 0 6. 0 6. 0	Sh. Sh. Sh.	St St St	P. R. P. R. P. R. P. R.	Mule M. & M. M. & C Mule	Hd Hd Hd	450,455 429,721 347,523 330,339
9	Springfield Dist. Coal Min- ing Co., No. 5	do	5	250	5. 9	Sh.	St	P. R.	M. & M.	Hd	320,295
11 12 13 14	Ing Co., No. 3 West End Coal Co Citizens Coal Mining Co., B. Montour Coal Co., No. 400 Peabody Coal Co., No. 5	dododo	5 5 5 5	150 208 232	5. 9 6. 0 5. 9 6. 0 7. 0		St St St	P. R. P. R. P. R. P. R. P. R.	M. & M. M. & M. M. & M. M. & M. M. & M.	Hd Hd Hd Hd	296,983 283,673 235,947 219,513 213,612
16	ing Co., No. 7.  Springfield Dist, Coal Mining Co., No. 1.	Springfield		240	5, 6	Sh.			М. & М.		213,201
17	ing Co., No. 1	do	. 5			Sh.			Mule		197,698
18 19 20	Co	do		250 278	5. 10	Sh.	. St	P. K.	M. & M M. & M M. & M Mule	. Hu	191,800 180,711 176,770 143,463
22 23 24 25 26 27 28 29	Co. Sangamon Coal Mining Co., A. Citizens Coal Mining Co., A. Athens-Dawson Coal Co. Cantrall Coal Co. Number 12 Coal Co. Citizens Coal Co. I. W. Herndon. Watkins & Dabney.	dododoDawsonCantrall.SpringfieldPleasant Pl'sdoFarmingdale		5 246 5 207 5 250 5 210 5 180 8 110 8 108	5, 10 6, 0 5, 9 5, 2 6, 0 5, 5 6, 0 6, 0 5, 10	Sh.	StStStStStStStSt.	P. R P. R P. R P. R P. R P. R P. R P. R	Mule M. & M M. & M Mule M. & M Mule Mule Hand Mule	Hd Hd Hd Hd Hd Hd Hd Hd	98.846 84.313-60.458 58.507 25,082 20,657 6,295 2,495 1.775
	Total—29 mines										6,948,648
1	J. W. Wriston. Merideth Bros. J. R. Wriston. Harry Settles. Ray Hickerson. J. R. Thompson. L. E. Vogler. Ross Forter. OH. Briter. Ben Estes. Simpson & Gory. George Rayborn. Wheelhouse & Tomlinson. Beard Bros. A. Gorden. 7 F. W. Croxton. S. J. G. Passano. 9 C. A. Tomlinson. 0 E. Gex. William Veneen! Joe Enderlighter. 3 France & Hish. 4 Sherley & Stewart. 5 A. Farree. 6 William Cagle. 7 Will Skiles. Simon Portwood. 8 Simon Portwood. 8 Simon Portwood. 8 Simon Portwood. 8 Miller & Stometing.	Rushville		5 55 55 66 66 55 56 66 66 55 56 66 66 66	6. 0 6. 0 6. 0 6. 0 6. 0 6. 0 6. 0 6. 0	Dr Dr Dr Dr Dr Sl. Dr Dr Dr	Hdd Hdd Hdd Hdd Hdd Hdd Hdd Hdd Hdd Hdd	. P. R . P. R	Hand.	HdHdHdHdHdHdHdHd.	1 580 975 850 850 750 655 650 5 40 500 480 450 416

					Physi	cal c	harac	eter of 1	mines.		
Number.	Name of operator.	Post-office address of mine.	Geological number of seam.	Depth of coal below the surface—feet.	Thickness of scam- feet and inches.	Shaft, slope, drift.	Hoisting-steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, elec- tric.	Mining—hand, machine, both.	Total tons.
31 32	Frank Clevenger. L. Mesic	Brooklyn Huntsville	2 2	40 30		Dr. Dr.	Hd.	P. R. P. R.	Hand Hand	Hd	35 30
	Total—32 mines										24,154
	SCOTT COUNTY.										
1 2 3 4 5 6	G. W. Northrop. James J. Morris. Robert L. Brown. Charles Taylor. J. A. Jones. George Sellers. David Orchard.	Alsey. Exeterdodo. Winchesterdo Exeter	2 2 2 2 2 2 2 2 2	60 30 50 90 50 50 35	2. 6 2. 6 2. 6 2. 6 2. 6 2. 6 2. 6 2. 6	Sl Dr. Sl Dr. Dr. Dr. Dr.	Hd. Hd. Hd. Hd. Hd. Hd.	P. R. P. R. P. R. P. R. P. R. P. R. P. R.	Hand Hand Hand Hand Hand Hand	Hd Hd Hd Hd Hd	778 650- 520 440 200 192 160
	Total—7 mines										2,940
	SHELBY COUNTY.										
2 3 4 5 6	Moweaqua C. M. & Mfg. Co., No. 1. Tower Hill Coal Co., No. 1. Wm. Baum Coal Co., No. 4. Wm. Baum Coal Co., No. 6. John O'Brien. A. W. Smith	Moweaqua Tower Hill Shelbyville do do do	5 6 16 16 5 5	620 812 140 90 40 60	5. 3 7. 6 1. 6 1. 6 2. 0 2. 0	Sh. Sh. Sh. Sh. Sh.	St St St St St	P. R. P. R. P. R. P. R. P. R. P. R.	M. & M. Mule Hand Hand Hand	Ме Нd Нd Нd Нd	83,908 5,124 2,300 2,200 1,300 850
	Total—6 mines										95,682
	STARK COUNTY.										
1258456789	Jesse Savill. James Scott. T. T. McDaniel Geo. D. Boardman Alfred E. Catton W. J. Dunean Mike Beeman Robert Bros John Thorneycroft	Wyoming do do Toulon LaFayette Neponset Wyoming Bradford Wyoming	6 6 6 6 6 6 6 6	83 136 30 56 20	4. 0 4. 8 4. 6 4. 6 5. 0 4. 4 4. 4 4. 0 3. 10	Dr. Sh. Sh. Dr. Sh. Dr. Dr. Dr.	Hd. Hd. St Ho. Hd. Ho. Hd. Hd.	P. R. P. R. P. R. P. R. P. R. P. R. P. R. P. R.	Hand Hand Hand Hand Hand Hand Hand Hand	Hd Hd Hd Hd Hd Hd Hd	4,008 2,120 1,970 1,600 400 352 120 75 60
	Total—9 mines										10,705
	ST. CLAIR COUNTY.										
2	St. Louis & O'Fallon Coal Co., No. 2 Southern Coal, Coke & Min-	E. St. Louis	6	197		- 1		1	Motor		842,875
	ing Co., No. 8	Belleville Collinsville Belleville	6 6	114 232 212	7. 6 6. 6 6. 6	Sh. Sh. Sh.	St St	P. R. P. R. P. R.	M. & M. M. & M. M. & M.	Мс Мс Нd	518,496 437,247 307,188
6 7 8	Consolidated Ceal Co., No. 17 Prairie Coal Co. Southern Coal, Coke & Min- ing Co., No. 17. Kolb Coal Co., No. 2. St. Ellen Coal Co. St. Louis & O'Fallon Coal Co., No. 1. Superior Coal Co. Eldinar Coal Co.	do	6 6 6	131 200	7. 6 6. 0 7. 0	Sh. Sh.	St St St	P. R. P. R. P. R.	M. & M. M. & M. M. & M.		275,883 259,010 256,544
7.1	On humbon Gool & Mining Co.	do	6 6 6	100 160 155 170	6. 0 6. 6 7. 0 6. 0	Sh. Sh. Sh.	St St St	P. R. P. R. P. R. P. R.	Motor M. & M. Mule M. & M.	Hd Mc Both. Hd	184,600 183,607 166,123 156,356
12 13	Stibili and Coal & Mining Co., Carbon. Mulberry Hill Coal Co. Columbia Coal Co. International Coal & Mining	O'Fallon Freeburg	6 6	190 150 175					M. & M. Mule M. & M.	1	127,324 118,109 116,635
15	International Coal & Mining Co., Taylor	O'Fallon	6	190		- 1		- 1	M. & M.		115,307

Table 38-Continued.

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				Physic	eal cha	irac	ter of 1	nines.		
Number.	Name of operator.	Post-office add as or mines.	Geological number of seam. Dep h of coal below	Thickn s of seam-feet and inches.	Shaft, slope, drift.	horse, hand.	Long wall ,pillar and room	Haulage—hand, mulc, cable, elec- tric	Mining—hand, ma- chine, both.	Total tons,
16 17 18 19 20	Star Coal Co., Star. Egyptian C. & M. Co. Victoria Coal Co.	Maseoutah Freeburg Marissa Belleville	6 21 6 8 6 19 6 7	6.6	Sh. S Sh. S Sh. S	St St St	P. R. P. R. P. R. P. R.	M. & M. Mule Mule M. & M.	Hd Mc Both. Both.	112,972 103,254 100,836 92,811
	ing Co., Avery Kolb Coal Co., Faribanks Jones Bros. Coal & Mining	New Athens	6	. 6.0	Sh. S	št	P. R. P. R.	Mule M. & M.	Hd	91,260 88,245
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 40 41 42 43 44 45	ing Co., Avery. Kolb Coal Co., Faribanks. Jones Bros. Coal & Mining Co., No. 1. Aben Coal Co. Co., No. 1. Aben Coal Co. Golden Rule Coal Co. Fullerton Coal Co. Fulle	Marissa Belleville, Lenzburg Belleville, Marissa, Caseyville, Millstadt, Belleville, Millstadt, Belleville, do do do do Lenzburg Freeburg, Belleville, New Athens, Lebanon, Freeburg, Belleville, Lebanon, Freeburg, Belleville, Lebanon, Belleville, John Chenzburg Belleville, Lebanon, Belleville, John Chenzburg Belleville, Lebanon, Freeburg, Belleville, John Chenzburg Belleville, Bellevil	6 12 6 16 6 16 6 18 6 18 6 18 6 18 6 18 6 18	66 6.0 6.0 7.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	St	St St St St St St St St	P. R. P. R. P. R.	Hd Mule Mule M. & M. M. & M. M. & M. Mule Mule Mule Mule Mule	Hd Hd Hd Hd Hd Hd Hd Hd Hd Hd	82,983 65,192 63,982 63,150 55,456 55,456 64,896 44,222 32,863 32,283 32
477 488 499 500 511 522 533 544 555 560 677 588 599 600 611 622 633	Soluteri Coa coee e Mining Co., No. 5. Enterprise Collieries Co. Wm. Lattman. Tower Grove Coal Co. R. Schramm & Son. Breuk & Schilling. Breuk & Schilling. For Committee Committ	. do Rentchler Belleville. Tower Grove. Bellevilledo New Athens. Mascoutah Caseyville. Maristadt .do Milstadt .do Milstadt .Egemont Smithton Belleville. E. St. Louis.	6 11 6 6 15 6 6 15 6 10 6 6 16 6 16 6 4 6 4 6 4 6 4 6 4 6 4 6 4	0 6.0 6.6 60 7.0 7 6.0 66 6.6 60 7.0 6.6 66 6.6 60 6.6 67 6.3 44 6.0 62 6.0	Sh.	St St St St St St Ho.	P. R. P. R. P. R. P. R. P. R. P. R. P. R.	Mule Motor Mule Hd Mule Mule Hd Mule Mule Hd Mule Mule Mule Mule Mule Mule Mule Hd Mule Hd Mule Mule Hd Mule Mule	Hd Hd Hd Hd Hd Hd Hd Hd	6,093 930 20,871 15,210 13,992 8,751 7,600 7,363 5,863 5,900 4,752 2,987 2,864 2,652 2,200 1,781 1,048 300
	TAZEWELL COUNTY. Groveland M. Co., No. 1. Tazewell Coal Co. Ubben Coal Co. Lake Erie C. & M. Co. Urbandale Coal Co. Manhattan Coal Co. David Grant & Co. Fred Seffer. Giebelhausen Coal Co. Total—9 mines.	Peoria Pekin	,	30 4.6 35 4.8 30 5.0 4.4 4.2 33 4.2 30 4.8 5.0 4.0	Sh.	St St St St St St	P. R. P. R. P. R. P. R. P. R. P. R. P. R. P. R.	M. & M. M. & M. Mule C. & M. Mule Mule Hd Mule	Both. Mc Both. Hd Hd Hd Hd	217,491 140,627 29,000 27,883 9,339 12,800 11,600 640 500

-			Physical character of mines.								
Number.	Name of operator.	Post-office address of mine.	Geological number of seam.	Depth of coal below the surfact—feet.	Thickness of seam— feet and inches	Shaft, slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar. and room.	Haulage—hand, mule, cable, elec- trie.	Mining—hand, ma- chine, both.	Total tons,
	VERMILION COUNTY.										
1 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 1 1 1 1 2 1 3 3 1 4 4 1 5 5 6 6 1 7 7 1 8 8 1 9 9 0 1 1 1 2 2 2 2 3 3 2 4 4 2 5 2 6 2 7 2 8 8 2 9 3 3 3 1 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	United States F. Co., Vorm. United States F. Co., Vor. 4. Peabody Coal Co., Vo. 24. Peabody Coal Co., Vo. 24. United States Fuel Co. Missionfield Coal Co., Vo. 24. Missionfield Coal Co., Vo. 24. Missionfield Coal Co., Vo. 3. Missionfield C. Co., Vo. 1. Danville Colliferies Co. Danville Colliferies Co. United States F. Co., Bunsen Ohio Fuel Co. Brady Branch Coal Co. Contract Mining Co. A. B. Mauck W. J. Watkins J. H. Mauck Frank Woodard W. F. Crawford Lloyd Hawkins P. J. Odgen & Son. Frank Holmgrem. Fairmount Coal Co. Geo. A. Miller Laurence Balduchi Coxen Bros. John T. James. S. M. Hodge & Son. Mons. Olson. F. L. Bramaman. William J. Farson William J. Farson	do Oakwood Danville Oakwood Danville	6 7 7 7 7	164 6 195 90 30 90 30 242 204 204 20 80 8 280 70 107 12 99 100 221 28 20 300 400 30 30 30 30 30 30 30 30 30 30 30 30 3	5. 6 5. 6 6. 0 5. 6 6. 0 6. 0	St St Sh Sh Sh St Sl	St St St St St	P.R. P.R. P.R. P.R. P.R.	Motor M. & M. Motor M. & M. Motor Mule	Both. Hd Hd Hd Hd Hd Mc	877, 920 739, 937 431, 979 305, 820 305, 820 305, 820 305, 820 305, 820 43, 835 51, 988 29, 796 66, 578 66, 578 67, 796 68, 578 69, 990 4, 830 4, 830 4, 830 4, 830 11, 225 11, 225 11, 225 11, 225 11, 235 11, 225 11, 235 11, 235 11, 225 11, 235 11, 235
90	Total—33 mines	Danville			0.0	SI		r. n.			3,299,419
1 2 3 4 5	WARREN COUNTY.  H. J. Rohr Gilmore & Houston Caldwell & Son J. G. Lee Willis Clayton Total—5 mines.  WASHINGTON COUNTY.		2 2 2 2 2 2 2		4. 0 2. 0	Sh. Sh. Dr. Sl Dr.	St St Hd. St Hd.	P. R. P. R. P. R. P. R.	Hd Hd Hd Hd	Hd Hd Hd Hd	4,205 2,674 492 300 270 7,941
1 2 3 4	Centralia C. Co., No. 5 Nashville Mining Co Kuhn Collieries Co Martin Bros Total—4 mines	Centralia. Nashville. Dubois. Lenzburg.	6 6 6	550 425 300 210	6. 0 5. 6 5. 6 6. 6	Sh. Sh. Sh.	St St St	P. R. P. R. P. R. P. R.	Motor Mule Mule Mule	Both. Hd Hd	705,514 36,900 14,536 3,049 759,999
1	WHITE COUNTY.  White County Mining & Power Co	Norris City		640	4. 10	Sh.	St	P. R.	Mule	Мс	105,645

TABLE 38—Continued.

	_		Physical character of mines.								
	Name of operator.	Post-office address of mine.	l number	Depth of coal below the surface—feet.	s of seam—	pe, drift.	-steam,	l, pillar, m.	Haulage—hand, mule, cable, elec- trie.	Mining—hand, ma- chine, both.	ŝ
Number.			Geological of seam.	Depth of the surf	Thickness of seam feet and inches.	Shuft, slope, drift	Hoisting—steam horse, hand.	Long wall, pillar, and room.	Haulage- mule, c trie.	Mining— chine, 1	Total tons.
1	WILL COUNTY.										
1 2	Wilmington Coal Mining & Mfg. Co., No. 6 Oswald & Young	Torino Braidwood	2 2	100 60	3. 0 3. 0	Sh.	St St	L. W. L. W.	Mule Mule	Hd	70,462 14,610
	Total—2 mines										85,070
	WILLIAMSON COUNTY.										
2 3	W. P. Rend Coal & Coke Co., No. 2. Johnston City Coal Co Peabody Coal Co Madison Coal Corp., No. 9.	Marion	7 6 6	108	9. 0 9. 0 9. 0	Sh. Sh.	St St	P. R. P. R. P. R.	M. & M. M. & M. M & M. M. & M.	Both. Both.	702,304 636,262 627,400 564,954
5	Chicago & Cartervine Coar	Dewmaine Herrin	6	118	7. 6 9. 0				M. & M.		522,373
6	Co. A Big Muddy Coal & Iron Co., No. 8 Madison Coal Corp., No. 8 Big Muddy Coal & Iron Co., No. 7.		6	170	9. 0 7. 6	Sh.	St	P.R.	М & М. М. & М.	Мс	491,388 482,079
10 11	Consolidated Coal Co., L. C. T. G. Warden Coal Co.	do Herrin	6 6 5 6	276 320 150	7.6	Sh.	St	P. R. P. R. P. R. P. R.	M. & M. M. & M. M. & M. M. & M. M. & M.	Mc	481,278 464.313 458,043 395,070
13	Western Coal & Mining Co Chicago & Big Muddy Coal & Coke Co., No. 1	Marion	6		9.6	Sh.	St	P. R.	M. & M. Motor	Мс	2°1,402 2°0,900 277,823
15 16	Taylor Mining Co., No 2 West Virginia Coal Co., No. 1 Chicago & Carterville Coal	Herrin Marion	6	108	8. 0 6. 8	Sh.	St	P. R.	M. & M.	Mc	273.067 264,759
17	Scranton & Big Muddy Coal	Merrin	6		9, 0	Sh.	St	P. R.	M. & M. Mule	Ме	247.638
18 19 20	Big Muddy Fuel Co. Pond Creek Coal Co. Hafer Washed Coal Co. Pratt Bros.	Herrin Carterville	6 6	120 240 120	7. 6 9. 0 9. 0	Sh. Sh. Sh.	St St St	P. R. P. R. P. R. P. R.	Mule M. & M. M. & M. M. & M. M & M. Motor M. & M.	Hd	243,992 226,882 223,721 201,331
99	Taylor Mining Co., No. 1 Duncan Coal Co. Williamson County Coal Co. Ernest Coal Co. Taylor Mining Co., No. 3	do .	6	50 100 165	8. 0 9. 0 8. 0	Sh. Sh. Sh.	St St St	P. R. P. R. P. R. P. R. P. R.	Motor M. & M. M. & M. Motor	Hd	196,537 161,802 158,746 145,651
26 27	Cartervine Big Muddy Coal			150	8, 0					Hd	132,476
	Co	Cambria		20	7.0	St Sh.	St		M. & M. M. & M.	Hd	109,204 99,665 89,324
31 32	Ridge Coal Mining Co Marion & Pitsburg Coal Co.	Marion Pittsburg	. 6	60 210	8.0	Sh. Sh.	St	P. R. P. R. P. R.	Mule Mule M. & M.	Both. Hd Mc	76,832 54,584 30,162
33 34 35	Henderson & Wallace C. Co. Lewis Coal Co. E. Lewis Coal Co.	Mariondodo	6	40   40	6. 0 8. 0 8. 6 4. 0	Sh.	St St St	P. R. P. R. P. R.	M. & M. Mule Mule Mule Mule Mule Mule Mule Hand	Hd Hd	17,718 9,000 6 000 10,000
38 38 39	W. H. Johns Young Bros E. McClanahan	dodoMarion	1 5	130 50 30		SI	St St	P. R. P. R. P. R.	Mule Mule Hand	Hd Hd	10,000 4,017 3,705
40 41 42 43	Henderson & Wallace C. Co. Lewis Coal Co. E. Lewis Coal Co. J. W. Staleup. W. H. Johns. Young Bros. E. McClanahn. John W. H. Co. John W. L. C	Crab Orcharddo	5	14 15 30	4.6 4.6 7.0	SI SI	Ho. Ho. St	P. R. P. R. P. R.	Hand Mule Mule Mule Mule Hand	Hd Hd	1,600 800 600 600 300
44	C. M. Bridis Total—44 mines	Marion		35	7.0	S1	St	r. K.	Hand		9,666,302

Table 38—Concluded.

Number.	Name of operator,	Post-office address of mine.	Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seam— feet and inches.	Shaft, slope, drift.	Hoisting-steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, elec- tric.	Mining—hand, machine, both.	Total tons.
1 2	WOODFORD COUNTY.  Roanoke Coal Co Minonk Coal Co  Total—2 mines	Roanoke Minonk	3 2	480 550	2.8	Sh.	St St	L. W. L. W.	Mule	Both. Hd	132,811 68,787 201,598

Table 39 summarizes the physical characteristics and shows the tons of coal taken from each seam.

TABLE 39—SUMMARY OF THE PHYSICAL CHARACTERISTICS OF THE MINES.

			Mann	er of wo	king.	Chara	cter of op	ening.	
Geological number of seam.	Number of counties.	Number of mines.	Long wall.	Pillar and room.	Strip.	Shaft.	Slope.	Drift.	Tons.
l and 2.	1 9 17 6 21 28 8 1	2 33 140 11 239 302 81 2	20 2 1	2 33 116 11 237 299 79 2	2 2 2	2 '18 51 9 123 245 30 2	12 21 44 37 12	3 68 2 72 20 39	334,210 409,405 4,255,970 162,742 19,649,022 51,440,538 2,727,144 4,500 78,983,527

#### FATAL ACCIDENTS.

Table 40 shows in alphabetical order the names of the persons accidentally killed in discharge of duty in and about the coal mines of the State. The age, occupation, conjugal relation, nativity, cause and date of death, name and location of mine are shown in each instance.

TABLE 40-FATAL ACCIDENTS-NAME, AGE, OCCUPATION, CONJUGAL RELATION, NATIVITY, DATE AND CAUSE OF DEATH, NAME AND LOCATION OF COLLIERY.

County In which mine is located.	Williamson. Williamson. Williamson. Plantable. Jordan State Saline. Saline. Williamson. Wordigonery. St. Clair. Wordigonery. St. Clair. Wordigonery. St. Clair. Wordigonery. St. Clair. Wordigonery.
Postoffice address of mine.	Herrin.  Johnston City.  Johnston City.  Johnston City.  Halliday bord.  Halliday bord.  Harrisburg.  Norberg.  O'Fallun.  O'Fallun.  O'Fallun.  Para.  Para.  Para.  Para.  Harrisburg.
Namo of colliery.	June   2 W. P. Rent Col. Co.     Phoe.   Stophaston City Col. Col. Col. Col. Col. Col. Col. Col.
Date of death.	Jume 2 Dec. 8 Pec. 9 Pe
Cause of death.	Asphyxiated Asphyxiated Palling coal Palling coal Palling glate Palling glate Palling glate Palling glate Palling cok Palling cok Palling cox Agalling cox Palling cox
Nativity.	America     America
Single—S.  Number of children.  Number of dependents.	HID 0001 H 01 ID HID ID H 01 0
Married—M. Single—S.	MNEWNERD HONDONERDONEN OFFICER
Occupation.	Sale   Laborer   Sale
Namo.	Adams, Ezra

# Table 40—Continued.

County in which mine is located.	St. Clair. Peorla. Peorla. Peorla. Peorla. Peorla. Peorla. Peorla. Peorla. Peorla. Malamson. Willamson. Willamson. Willamson. Willamson. Willamson. Willamson. Franklin. Franklin. Franklin. Franklin. Randolph. Randolph. Saline.
Postoffice address of mine.	Mascoutah St. Clair. Kitacald Christian O. Poorla. O. Poorla. O. Poorla. O. Poorla. O. Bardon. O. Bardon. O. Harakin O. H. Sharkin O. Sharkin
Name of colliery.	S Kolb Coal Co., No. 1  February Coal Co., No. 8  February Coal Co., No. 8  February Coal Co., No. 8  Singerian Coal Co., No. 1.  Singerian Coal Co., No. 2.
Date of death.	Sept
Cause of death.	Flying coal. Pifear Falling roof. Nicked by mula Falling roof. Fall of a coal. Fall of a coal. Falling roof. Gas explosion. Falling coal. Falling coal. Gas explosion. Falling coal. Gas explosion. Falling roof.
Nativity.	2 America. 1 France. 1 france. 1 do 16 do
Single—S.  Number of figures.  Number of characteries.  Gundents.  George dentes.	H 15 HH2121 H 12 15 15 15 15 15 15 15 15 15 15 15 15 15
Married-M. Single-S. 20	NAMES NO NEW
Occupation.	Shot firer.  So Trip rider.  So The Fider.  So Miner.  So Maren.  Trip rider.
Age.	828888
Name.	Cast, Gus. Colemont, Samuel Colemont, Samuel Colemna, Samuel Colemna, Samuel Colemna, Samuel Colemna, Samuel Colemna, Samuel Colemna, Max. Colemna, Max. Colemna, Max. Colemna, Max. Colemna, Fred Davis, George Davis, George Davis, Harry Davis, Harry Davis, Harry Davis, Harry Davis, Max. Destroy, Alex. Dever, Elmer. Diver, Elmer. Diver, Elmer. Elselvon, Valler Elselvon, Joseph E

Montennery Montennery Macoupin Macoupin Macoupin Macoupin Franklin Franklin Franklin Macoupin Macoupin Macoupin Franklin Macoupin
Hillshoro Hillshoro Herrin Decatur Sesser Service Sesser Se
28. C. & E. J. Coal Prop., No. 11.  2 W. P. Rend C. & C. Co., No. 2  3 Royal Colliery Co.  5 Seperatur Coal Co.  8 Springfield Dist. C. M. Co., No. 3  11. United States Free Co.  2 W. P. Rend C. & C. Co., No. 1  2 Lashille County Coal Co., No. 1  2 Lashille County Coal Co., No. 1  2 Lashille County Coal Co., No. 1  2 Salabine County Coal Co., No. 3  2 Salabine County Coal Co., No. 3  2 Salabine County Coal Co., No. 7  2 Salabine County Coal Co., No. 7  3 Salabine County Coal Co., No. 7  4 Coal Coal Prop., No. 1  5 Salabine County Coal Co., No. 1  7 Scalabine County Coal Co., No. 1  7 Scalabine County Coal Co., No. 1  8 Salabine County Coal Co., No. 1  8 Salabine County Coal Co., No. 5  8 Shoal Coal Co., No. 3  8 Shoal Creek Coal Co., No. 5  8 Shoal Coal Co., No. 3  8 Shoal Coal Co., No. 3  8 Shoal Creek Coal Co., No. 5  8 Shoal Coal Co., No. 3  8 Shoal Creek Coal Co., No. 5  8 Shoal Creek Coal Co., No. 8  8 Shoal Creek Coal Co., No. 5  8 Shoal Creek Coal Co., No. 6  8 Shoal Creek Coal Co., No. 6  8 Shoal Creek Coal Co., No. 6  8 Shoal Creek Coal Co., No. 8  8 Shoal Creek Coal Co., Shoal Co., Co., Shoal Coal Co., Shoal Co., Co., Shoal Coal Co., Co., Shoal Co., Co., Co., Co., Co., Shoal Co., Co., Co., Co., Shoal Co., Co., Shoal Co., Co., Co., Co., Co., Co., Co., Co.,
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Electrouted  Gas explosion  do  do  Healing cool  Gas explosion  By Pit cars  Motor  Gas explosion  By Pit cars  By Pit cars  By Pit cars  By By Cool  Gas explosion  By Cool  By Coo
5 America.  do d
Nama Nama Nama Nama Nama Nama Nama Nama
Garner, Henry   38 Machine trumer   Gastell, John   30 Jahorer   31 Jahorer   32 Jahorer   32 Jahorer   32 Jahorer   32 Jahorer   33 Jahorer   34 Jahorer   34 Jahorer   35 Jahorer   36 Jahorer   36 Jahorer   36 Jahorer   36 Jahorer   36 Jahorer   37 Jahorer   37 Jahorer   38 Jahorer   38 Jahorer   38 Jahorer   39 Jahorer   39 Jahorer   30 Jahorer   30 Jahorer   30 Jahorer   30 Jahorer   30 Jahorer   31 Jahorer   32 Jahorer   33 Jahorer   34 Jahorer   35 Jahorer   35 Jahorer   36 Jahorer   37 Jahorer   36 Jahorer   37 Jahorer   36 Jahorer   37 Jahorer   36 Jahorer   37 Jahorer   38

Table 40—Continued.

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County In which mine is located.	Frankin.  Racoupin.  Frankin.  Radison.  Williamson.  Saline.  Frankin.  Saline.  Prankin.  Prankin.  Prankin.  Williamson.  Williamson.  Williamson.  Radion.  Frankin.  Frankin.  Frankin.  Frankin.  Rulliamson.  Rulliamson.  Rulliamson.  Rulliamson.  Rulliamson.  Rulliamson.  Saline.  Frankin.  Madison.  Saline.  Razakin.  Madison.  Saline.  Razakin.  Madison.  Saline.  Frankin.  Madison.  Saline.  Frankin.  Madison.  Saline.  Recupin.  Madison.  Saline.  Madison.  Saline.  Madison.  Sanganon.  Montgomery.
finine.	lie
Postoffice address of mine.	Sept. 8 Taylor Colliery Co., No. 6. Benton.  Apr. 10 Gold Ben Coal Corporation, No. 8 Var. Frankfort.  Apr. 20 Consolidated Cad. Co., No. 1, Stantford.  Mar. 10 Donk Bros. C. & C. Co., No. 1, Collinvalle.  Mar. 10 Donk Bros. C. & C. Co., No. 1, Collinvalle.  Nov. 16 Consolidated Coal Co., No. 2, Stantford.  Mar. 20 F. Heard C. & C. Co., No. 2, Benrin.  June 2 W. P. Heard C. & C. Co., No. 2, Benrin.  June 2 W. P. Heard C. & C. Co., No. 2, Benrin.  Apr. 25 Chi. Wilm. & Franklin Coal Co., No. 3, Introduced.  Apr. 25 Chi. Wilm. & Franklin Coal Co., No. 6, Stanford.  Apr. 27 Chi. Wilm. & Franklin Coal Co., No. 6, Introduced.  Mar. 21 Taylor Coal Co., No. 3, Introduced.  Dec. 34 Salha- Co. Coal Co., No. 3, Introduced.  Dec. 34 Salha- Co. Coal Co., No. 3, Introduced.  Dec. 34 Salha- Co. Coal Co., No. 2, Introduced.  Dec. 34 Salha- Co., Co., No. 6, Co.,
	No. 5   1   1   1   1   1   1   1   1   1
lllery.	, No. 6 oration oratio
Name of colliery.	liny to dead to all to the total to the tota
Naı	Straylor Collicry Co., No. 6.  22 Consolidated Cont. Co., No. 14.  19 Old Ben Coal Corporation, No. 5.  23 Elements Code Co., No. 14.  24 Elements Code Co., No. 15.  25 Elements Code Co., No. 17.  26 Elements Code Co., No. 27.  27 Elements Code Co., No. 27.  28 Elements Code Co., No. 27.  29 Elements Code Co., No. 27.  20 Elements Code Co., No. 27.  20 Elements Code Co., No. 37.  21 Elements Code Co., No. 37.  22 Elements Code Co., No. 37.  23 Elements Code Co., No. 37.  24 Elements Code Co., No. 37.  25 Elements Code Co., No. 37.  26 Elements Code Co., No. 37.  26 Elements Code Co., No. 37.  27 Donk Bros. C. & C. Co., No. 37.  28 Elements Code Co., No. 37.  29 Elements Code Co., No. 37.  20 Elements Code Co., No. 37.  21 Donk Bros. C. & C. Co., No. 37.  22 Donk Bros. C. & C. Co., No. 37.  23 Elements Code Co., No. 37.  24 Elements Code Co., No. 37.  25 Donk Bros. C. & C. Co., No. 37.  26 El Code Prop., No. 22.  27 Elements Code Co., No. 37.  28 Elements Code Co., No. 37.  29 Elements Code Co., No. 37.  20 Elements Code Co., No. 37.  21 Udited States Freid Co., No. 21.  22 Elements Code Co., No. 37.  23 Elements Code Co., No. 37.  24 Elements Code Co., No. 37.  25 Elements Code Co., No. 37.  26 Elements Code Co., No. 37.  27 Elements Code Co., No. 37.  28 Elements Code Co., No. 37.  28 Elements Code Co., No. 37.  29 Elements Code Co., No. 37.  20 Elements Code Co., No. 37.  20 Elements Code Co., No. 37.  21 Elements Code Co., No. 37.  22 Elements Code Co., No. 37.  23 Elements Code Co., No. 37.  24 Elements Code Co., No. 37.  25 Elements Code Co., No. 37.  26 Elements Code Co., No. 37.  27 Elements Code Co., No. 37.  28 Elements Code Co., No. 37.  29 Elements Code Co., No. 37.  20 Elements Code Co., No. 37.  20 Elements Code Co., No. 37.  21 Elements Code Co., No. 37.  22 Elements Code Co., No. 37.  24 Elements Code Co., No. 37.  25 Elements Code Co., No. 37.  26 Elements Code Co., No. 37.  27 Elements Code Co., No. 37.  28 Elements Code Co., No. 37.  29 Elements Code Code Code Code Code Code Code Code
Date of death.	8881-25-288828288282828282828282828282828282
Dat	Sept.  April Mar.  Nar.
death,	Falling coal. Falling coal. Falling coal. Pit cars. Falling clod. Bursting pipo. Falling clod. Falling clod. Falling clod. Falling clod. Falling coal. Falling coal. Falling coal. Falling coal. Falling clod. Falling clod. Falling clod. Falling clod. Falling state. Falling clod. Falling clod. Falling clod. Falling state. Falling coal.
Cause of death.	Falling coal Falling coal Falling state Falling state Falling state Falling state Gas explosis Falling state Falli
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Single—S.  Wumber of children.  Children.	H004 H 0041-00H 1000 004010 4 0004 H
Married—M. Single—S.	NAMED OF THE PROPERTY OF THE P
atlon.	McClincock, Sauford 48 Miner.  MoClurk, James Prece boss, McMurphy, S. N. 35 Freen boss, McMurphy, S. N. 35 Freen boss, McMurphy, S. N. 35 Freen boss, Mayer, Johner. 48 Carpenter Mcco, Atnos. 35 Laborer Mcco, Atnos. 36 Laborer Mcco, Atnos. 37 Lab
Occupation.	Shiner   S
	18 Miner   Pace boss   Pace bo
Age.	2 : 8 : 8 : 8 : 8 : 8 : 8 : 8 : 8 : 8 :
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Bachi, Wilm. & Franklin C. Co., So, Whining B. Lamashi Caal Co., No. 2. Mt. Olive. Mt. Olive. Mt. Olive. Ca. Co., No. 2. Mt. Olive. Ca. Co., No. 2. Mt. Olive. Mt. Olive. Ca. Ca. Co., No. 2. Mt. Olive. Ca. Ca. Co., No. 2. Mt. Olive. Ca. Ca. Co., No. 2. Herbin. Ca. & C. Co., No. 3. Mt. Hilliamson. County. Cal. Co., Johnston. Ca. & C. Co., No. 3. Herbin. Ca. & C. C
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Rassan, Marti Rassan, Marti Rayan, Marti Rayanod, Dhales. Riber, Charles. Riber, Charles. Rushing, Reul Rushing, Reul Sanders, Ira. Sanders, Ira. Sentoners, Pete Schooler, John Schooler, John Tydor, Charles, Schooler, John Tydor, Charles, John Tydor, John Tydor, Charles, John Tydor, John Ty
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Table 40—Concluded.

	County in which mine is located.	Mont gemery. Franklin. Franklin. Madison. Madison. Vermillon. Vermillon. Vermillon. Mont gonery. Mont gonery. Mont gonery. Jackson. Sangamon.
	Postoffice County address of mine. is located.	Hillsboro Montgomery.  Stonington Frankin.  Stonington Gristian.  Maryellie St. Chair.  Baleville St. Chair.  Johnston Gity. Willamson.  Johnston Gity. Willamson.  Nottie.  Montgomery.  Notte.  Montgomery.  Millanyon.  Springfield.  Sangamon.  do.  Sangamon.
	Name of colliery.	Palling coal   Apr. 4   Hillsboro Coal Co.   Hillsboro   Annigome   Apr. 4   Hillsboro   Coal Co.   Hillsboro   Apr. 4   Hillsboro   Coal Co.   Apr. 2   Pendody Coal Co.   No. 2   Storbington   Cinstain   Apr. 2   Pendody Coal Co.   No. 2   Storbington   Cinstain   Apr. 2   Pendody Coal Co.   No. 2   Storbington   Cinstain   Apr. 2   Pendody Coal Co.   No. 2   Apr. 4   Pendison
	Date of death.	
	Cause of death.	Poland.   Falling coal.   Apr.   America.   Pit cars.   Feb.   Apr.   Ado.   Pit cars.   Apr.   Ado.   Pit cars.   Apr.   Ado.   Pit cars.   Ado.   Ad
	Nativity.	Poland.   America   America   America   3 do   4 do   6
Conjugal relation.	Married—M. Single—S. Number of children. Wumber of dependents.	
3.5	Married—M. Single—S.	Z ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
	Occupation.	Wertlewski, Mike   38 Miner   38 Miner   38 White   34 Cager   34 Cager   34 Cager   34 Cager   38 Cager   3
And the second s	Name.	Wertlewski, Mike   33 Miner

Table 41 gives by districts the number killed, and tons mined to each death, number employed, and ratio of fatalities to 1,000 employees.

TABLE 41—FATAL CASUALTIES, BY DISTRICTS—ALL MINES.

	N	umber	killed	-		ımber p'oyce		of .d.	s to	deaths 00 em- s	tons each
District.	Under ground.	In shaft.	On the surface.	Total.	Under ground.	On the surface.	Total.	Total tons of eoal mined.	Number of employees each death	Ratio of de per 1,000 ployees	Number of of coal to death.
First Second Third Fourth Fifth Sixth Seventh Eighth Ninth Tenth Eleventh Twelfth Twelfth	5 3 5 2 14 13 28 16 9 6 49 33	1 2 2	1 1 1 1 2 1 1 3 6 1	34	8,257	367 299 442 303 610 614 768 614 457 517 1,716 1,049	6,821 5,360 5,501 15,618 9,306	2,790,350 6,716,090 7,634,571 10,240,425 7,667,369 5,755,650 5,218,599 16,079,571 9,684,125	827 1,147 429 475 281 401 536 611 284 274	. 91 1. 21 . 97 2. 33 2. 10 3. 55 2. 49 1. 87 1. 64 3. 52 3. 65	296,586 542,673 598,907 930,117 419,756 477,161 320,013 451,022 575,565 579,844 292,356 248,827
The State, 1917 The State, 1916	183 153	5 4	19 8		73,137 69,426	7,756 6,493	80,893 75,919	78,983,527 63,673,530	391 460	2. 56 2. 17	381,563 385,900

Table 42 gives the record for 35 years—1883-1917 inclusive.

TABLE 42—FATAL ACCIDENTS FOR 35 YEARS.

	Num-	Total	Total	Num- ber	D 11	Num- ber of tons of	Ave	rage numb	er—
Year.	ber killed.	num- ber of em- ployees.	tons of coal mined.	of em- ployees to each life lost.	Ratio per 1,000.	coal pro- duced to each life lost.	Killed.	Em- ployees.	Em- ployees to each life lost
883	134	23,939	12,123,456	180	5, 6	90,474	134. 0	23,939.0	180.0
884	46	25,575	12,208,075	566	1.8	265.393	90.0	24,757,0	275.
885	39		11,834,459	652	1.5	303,448	73.0	25,153.3	344. (
886	52		11,175,241	497	2.0	214,909	67. 8	25,326.5	373. 8
887	41		12,423,066	654	1.5	303,002	62. 4	25,622.0	410. 6
888	55		14,328,181	535	1.9	260,512	61. 2	26,250.0	429.2
889	42	30,076	14,017,298	716	1.4	333,745	58.4	26,796.6	458.7
890	53	28,574	15,274,727	539	1.9	288,203	57, 0	27,018, 8	467. 9
891	60		15,660,698	549	1.8	261,012	57. 3	27,677.9	477.2
892	57		17,862,276	590	1.7	313,372	57.3	28,273.3	488.3
893	69	35,390	19,949,564	513	1.9	289,124	58.4	28,920.3	490.9
894	72		17,113,576	534	2.2	237,688	59. 5	29,716.7	495.3
895	75		17,735,864	515	2.3	236,478	60.7	30,402.3	497.
896	77		19,786,626	481	2.3	256,969	61.9	30,877.6	495.
897	o 69		20,072,758	490	2.0	290,910	62. 3	31,071.7	495.
898	75		18,599,299	467	2. 1	247,991	63. 1	31,318,8	493.
899	84	36,991	23,434,445	440	2.3	278,982	64.4	31,652.5	489.
900	94		25,153,929	419	2.4	267,595	66.0	32,082.0	483.
901	99		26,635,319	446	2.2	269,044	67, 7	32,716.8	480.
902	99	46,005	30,021,300	465	2. 2	303,245	69.3	33,381.2	479.
903	156	49,814	34,955,400	319	3.1	224,073	73.4	34,163.7	463.
904	157	54,774	37,077,897	349	2.9	236,165	77.2	35,100.5	452.
905	199	59,230	37,183,374	298	3, 4	186,851	82, 5	36,149,7	436.
906	155		38,317,581	402	2.5	247,210	85. 5	37,238.5	434.
907	165	66,714	47,798,621	404	2. 5	289,689	88.7	38,417.6	431.
908	183	70,841	49,272,452	387	2.6	269,248	92.3	39,664.6	428.
909	213		49,163,710	346	2.9	230,816	96.8	40,889.4	421
910	406	74.634	48,717,853	184	5. 4	119,997	107. S	42,094.5	389.

Table 42—Concluded.

	Num- ber killed.	Total num- ber of em- ployees.	Total	Num- ber	n-4i-	Num- ber of tons of	Average number—					
Year.			tons of coal mined.	of em- ployees to each life lost.	Ratio per 1,000.	coal pro- duced to each life lost.	Killed	Em ployees.	Em- ployees to each life lost.			
1911 1912 1913 1914 1915 1916 1917	157 180 175 159 180 165 207	79,411 79,497 80,035 75,607 75,919	50,165,099 57,514,240 61,846,204 60,715,795 57,601,694 63,673,530 78,983,527	454 503 420 460	2. 0 2. 3 2. 2 2. 0 2. 4 2. 2 2. 6	319,524 353,407 381,860 320,009	111. 9 113. 9 115. 3 117. 3	43,312.3 44,515.6 45,644.0 46,718.8 47,594.2 48,427.2 49,355.4	397. 1 399. 9 404. 4 405. 1			

Table 43 shows the causes of the 207 fatalities.

TABLE 43—FATAL ACCIDENTS, BY CAUSES, WITH PERCENTAGES.

Asphyxiation. Boiler explosion. Bursting pipe. Cage. Caught in machinery. Coal fell down shaft.	rotal.													Per-
Boiler explosion Bursting pipe Cage. Caught in machinery Coal fell down shaft.	Total.	1st.	2d.	3d.	4th.	5th.	6th.	7th.	8th.	9th.	10th.	11th.	12th.	cent- age.
Electrocuted. Engine Falling prop. Falling roof and sides. Fell off cage. Fell off track Flying coal Gas explosion Machine. Motor Mule, kicked by Pit ears. Railroad ears. Shot explosion. Steam	4 2 1 2 2 1 7 1 1 7 7 1 2 2 4 15 17 3 5 7 7 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	4	2	5	1 1	8 1 1 2	1 1 3 1 1 1 1	1 1 1 1  16  1	10	6	1 5	1 1 4 13 1 1 6 6	3 1 	1. 93 . 97 . 48 . 97 . 97 . 48 . 38 . 48 . 48 . 37. 21 . 97 . 97 1. 93 7. 24 . 48 . 3. 38 1. 45 . 27. 54 4. 35 3. 38

Table 44. In this table is shown, by districts, the number killed inside the mine, in the shaft and on the surface, by causes.

Table 44—Fatal accidents—causes—location—by districts.

				I	neide	the	mine	э.			I	n the	shaf	t.	Outs	side t	he m	ine.
District.	Total killed.	Powder.	Gas explosions.	Falling roof and sides.	Machine and motors.	Pit ears.	Suffocation from gases.	Electricity.	Other canses.	Total	Cages.	Objects falling down shaft.	Fell down shafe.	Total.	Machinery.	Railway cars and locomotives.	Other causes.	Total.
First	6 3 6 3 16 16 32 17 10 9 55 34 207	1  2 5 1  1	6 9	4 2 5 8 3 16 10 6 5 13 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 4 3 9 5 1 1 22 11	3	1 1 1 1 6	1 1 1 2 1 6	5 3 5 2 14 13 28 16 9 6 49 33	1 1 1 2	i	1 1 2	1 2 2 2	1 1	1 1 1 1 1 2 3 1	1 1 1  1 2	1 1 1 1 1 2 1 1 3 6 1

Table 45 gives the number and per cent killed underground, in the shaft and on the surface.

Table 45—Number and per cent of fatal accidents, by causes, underground, in shaft and on the surface, by districts.

					Ū	nder	groun	d.	1			T	otal				
District.	Total number killed.	Use of powder.		Gas ex- plosion.		Falling roof and sides.		Pit cars.		Other causes.		under ground.		In shaft.		On the surface.	
		Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number	Per cent.	Number	Per cent.	Number.	Per cent.	Number	Per cent.	Number.	Per cent.
First. Second. Third. Fourth. Fifth. Sixth. Seventh. Eighth. Ninth. Tenth. Tenth. Tenth. Tenth. Tenth. Tenth. Twelfth.	6 3 6 3 16 16 32 17 10 9 55 34	2 5 1	20. 0 14. 3 38. 4 3. 6 11. 1 3. 0 6. 0 8. 4	6 9		5	80. 0 66. 7 100. 0 57. 1 23. 1 57. 1 62. 5 66. 7 83. 3 26. 5 15. 2	1 4 3 9 5 1 1 22 11	50. 0 28. 6 23. 1 32. 2 31. 3 11. 1 16. 7 44. 9 33. 3 31. 1 24. 9	1 2 2 2 1 1 1 8 7 — 23	7. 1 6, 2 11. 1 16. 3 21. 2 12. 6	5 3 5 2 14 13 28 16 9 6 49 33	83, 3 100 0 83, 3 66, 7 87, 5 81, 3 87, 5 94, 1 90, 0 66, 7 89, 1 97, 1	1 2 2	6. 2	1 1 1 1 2 1 1 3 6 1	6. 2 6. 2 5. 9 10 0 33. 3 10 9 2. 9

Table 46 presents the record of total deaths, number employed, tons mined, and number and per cent killed by use of powder, gas explosions, falls, pit cars, and other causes, for 30 years.

Table 46—Fatal accidents, by causes, with percentages, for  $30~{\rm years}.$ 

		1						Fatalit	ies <b>c</b> au	sed by-	_		
Year.	18.		=	Pow	der.	G	as.	Fa	lls.	Pit	ears.	Ot:	
	Total deaths.	Employees	Tons mined.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
1888. 1889. 1890. 1891. 1891. 1892. 1892. 1893. 1894. 1895. 1894. 1895. 1896. 1897. 1898. 1899. 1990.	555 422 533 600 577 699 725 777 699 99 99 9156 157 183 2133 2133 2133 2133 2133 2133 2133	29, 410 30, 076 28, 574 32, 951 33, 682 35, 390 38, 477 38, 633 37, 037 33, 788 36, 991 49, 814 59, 220 60, 744 77, 410 77, 410 77, 411 77, 410 77, 59, 919 80, 883 80, 685 75, 919 80, 883 81, 599 81, 599 81	14, (017, 288 15, 227, (272) 15, 660, (688 17, 862, 276 19, 449, 564 17, 113, (276) 19, 746, (276) 19, 746, (276) 19, 746, (276) 19, 746, (276) 19, 746, (276) 19, 746, (276) 19, 746, (276) 19, 746, (276) 19, 746, (276) 19, 747, (27	111 44 68 812 911 111 44 177 200 177 414 44 44 222 24 29 177 100 112 9 13 13 111	16 4 7.11 7.6 18.3 7.0 18.3 7.0 18.3 7.0 18.3 7.0 18.3 7.0 18.3 18.1 18.1 18.1 18.1 18.1 18.1 18.1	2 4 7 40 16 8 3 3	9. 4 6. 7 5. 3 6. 7 6. 7 2. 9 9. 3 4. 1 1. 0 5. 1 24. 1 3. 8 18. 8 19. 1 1. 7 3. 1 3. 6 1. 7 3. 6 1. 7 3. 6 1. 7 3. 6 1. 7 3. 7 3. 7 3. 7 3. 7 3. 7 3. 7 3. 7 3	333 26 36 36 333 28 43 43 38 41 46 43 51 51 57 77 65 580 84 84 84 84 84 81 81 81 81 81 81 81 81 81 81 81 81 81	60. 0 9 61. 9 9 67. 9 9 1 69. 6 7 55. 0 1 69. 6 7 50. 6 6 67. 7 54. 2 2 55. 6 6 7 44. 0 2 50. 9 50. 9	6 5 5 3 3 3 2 2 6 6 2 2 6 6 5 5 7 7 1 1 2 2 6 6 111 11 1 1 1 1 1 1 1 1 1 1	10 9 11.9 5.7 7.1 11.1 11.5 11.5 12.0 11.6 11.5 12.1 11.5 12.1 11.5 12.2 17.8 8.3 23.0 0.2 7.5 13.0	7 8 8 5 100 16 111 15 15 18 18 19 9 12 2 12 110 12 27 27 29 25 21 36 28 7 34 4 23 3 37 4 4 4 24 4 7 8 8 2 2	12. 7 19. 1 19. 4 16. 7 19. 1 15. 9 4 4 16. 7 128. 1 15. 9 9 20. 0 0 20. 0 4 13. 1 16. 0 4 13. 1 16. 0 4 15. 1 16. 1 16. 1 16. 1 17. 2 17. 2 18. 6 18. 7 19. 8 18. 3 21. 2 22. 7 22. 2 2. 2 2. 4

Table 47 gives the occupation, conjugal relation and average age of the men killed in each occupation.

Table 47—Occupation and conjugal relation of the Men killed.

Occupation.	Total.	Per cent-		Cor	njugal relat	ion.	,	Average
Occupation.	Total.	age.	Married.	Single.	Widows.	Children.	De- pendents.	age.
Asst, mine managers. Blacksmith. Cagers. Carpenter. Couplers. Drivers. Electrician. Engineer. Firemen. Foremen. Laborers. Loaders. Machine helpers.	1 4 1 2 32 1	97 .48 1.93 .48 .97 15.46 .48 .48 .97 2.42 14.01 5.80 3.38	13 13 1 13 1 1 1 1 5 19 6 3	1 2 19 10 10 6 4	13 13 11 11 15 19 6 3	26 26 26 26 7	5 1 6 2 2 2 41 1 1 3 18 59 30	41. 23. 30. 5 38. 4 17. 5 25. 5 39. 54. 48. 5 36. 3 32. 4 37. 8 31. 9

Table 47—Concluded.

		Per		Cor	njugal relat	ion.		
Occupation.	Total.	cent- age.	Married.	Single.	Widows.	Children.	De- pendents.	Average age.
Machine runners	12	5. 80	8	4	8	25	29	38,
line examiner	1	. 48	1		1		1	30.
dinersdotormen	60 5	28, 99	39	2I 2	39	90	117	39. 24.
perator	0 1	2. 42	J.	1	3	2	0	72.
hot firers	7	3, 38	7		7	16	19	41.
imbermen	5	2, 42	4	1	4	18	19	39.
rackmen	3	1, 44	2	î	$\hat{2}$	3	3	46.
rapper	1	. 48		1			3	17.
rip riders	13	6. 28	-4	9	4	3	8	24.
Total	207	100, 00	123	84	123	283	386	34.

Table 48 shows the occupational casualties in ten leading occupations.

Table 48—Occupational casualties, fatal and nonfatal, number of employees in each occupation, percentages and ratio.

Classified occupation.	Total num- ber of em-	Num accid in each	lents	Per ce	ent of class.	ployed class	er em- in each to one n—	Ratio per 1,000 employed in each class.		
	ployees in each class.	Fatal.	Non- fatal.	Killed.	In- jnred.	Killed.	In- jured.	Killed.	In- jured.	
Cagers Drivers Laborers Loaders Machine men. Miners Shot firers Timbermen Trackmen Trappers Total classified. Not classified	753 4,263 5,660 24,529 3,957 24,951 546 1,422 2,178 1,251 69,510 8,546	4 32 29 12 19 57 7 5 3 1	34 260 190 179 110 596 6 29 21 11	. 53 . 75 . 51 . 05 . 48 . 23 1. 28 . 35 . 14 . 08	4. 52 6. 10 3. 36 .73 2. 78 2. 39 1. 10 2. 04 .96 .88	188 133 195 2,044 208 438 78 284 726 1,251 411 251	22 177 30 137 36 42 91 104 114 48 46	5. 31 7. 51 5. 12 .49 4. 80 2. 28 12. 82 3. 52 1. 38 .80	45. 15 60. 99 33. 77 7. 30 27. 80 23. 89 10. 99 20. 39 9. 64 8. 79	
Total Local mines.	78,056 2,837	203 4	1,622 12	.26	2.08 .42	385 709	48 236	2, 60 1, 41	20. 78 4. 23	
The State	80,893	207	1,634	.26	2.02	391	1 50	2.56	20. 20	

Table 49 shows the number killed by occupations and the range of ages in each.

TABLE 49-TOTAL NUMBER KILLED, RANGE OF AGES AND AVERAGE AGE, BY OCCUPATIONS.

						Range	of age:	s—year	s.			
Occupation.	Total.	Under 20.	20 but under 25.	25 but under 30.	30 but under 35.	35 but under 40.	40 but under 45.	45 but under 50.	50 but under 55.	55 but under 60.	60 and over.	Average age.
Asst, mine managers. Blacksmith Cagers. Carpenter Couplers! Drivers! Electrician Engineer Fire men s Foremen s Laborers' Laborers' Machine helpers Machine runners. Mine examiner Miners' Motormen Operator' Short feres Trapper' Trapper' Trapper' Trapper' Tratl	2 1 4 1 2 32 1 1 2 5 5 29 12 7 12 1 60 5 5 1 1 7 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	6 1 3 1 2 19	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 1 2 1 2 1 2 1 2 3	1 3 3 5 3 2 4 1 1 8 1	3 1 2 6 6 1 1 5 9	2 1 1 3 1 1 1 6	2 2 1 1 9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 3	7	41. 23. 30. 5 38. 17. 5 39. 54. 54. 36. 3 32. 4 37. 8 31. 9 38. 1 30. 39. 8 24. 6 72. 41. 4 39. 6 46. 3 17. 24. 4

Table 50 gives the number killed in each month of the year.

TABLE 50-FATAL ACCIDENTS BY MONTHS.

			19	16					19	917			
District.	July.	August.	September.	Oetober.	November.	December.	January.	February.	March.	April.	May.	fune.	Total.
First	1 2 1 2 1 2	1	1 1 1 1 2 1	1 2 3 1 1 7 2	1 1 2 2 2 5	2 2 2 3 1 1 1 6 5	1 2 4 2 2 2 1 4 3 3	1 1 1 1 3 5 3 3	1 1 2 1 2 1 7 1 2 1 4 2	3 1 5 2 1 8 1 21	1 4 2 1 8 2	2 1 2 1 2 1 1 20	6 3 6 3 16 16 32 17 10 9 55 34
1916 1915	15 9	6 15	19 12	17 62	20 10	14 14	19 12	22 13	13 15	8 13	7	5 1	165 180

<sup>&</sup>lt;sup>1</sup> One, 16; one, 19. <sup>2</sup> One, 17; two, 18; one, 19. <sup>3</sup> One, 62. <sup>4</sup> One, age not given. <sup>5</sup> Two, 17; two, 18; two, 19; one, 67.

<sup>&</sup>lt;sup>6</sup> One, 19,
<sup>7</sup> Two, 16; one, 17; two, 62; three, 65; one, 66; one, 68.
<sup>8</sup> One, 72.
<sup>9</sup> One, 17.
<sup>1</sup> One, 17; one, 18.

Table 51 discloses the nationality of the men killed.

Table 51-Nativity and conjugal relation of the men killed.

			Cor	ijugal relat	ion		
Nativity.	Total.	Married.	Single.	Widows.	Children.	De- pendents.	Average age.
America	127	80	47	80	158	234	32.
Austria	8	5	3	5	14	19	34.
Bohemia	1	1		1	4	4	43.
roatia	1	8	1				30.
Ingland	10 2	8	2 2	8	14	21	39.
rance ermany	12	8	4	8	32	31	34. 40.
lungary	3	1	2	1	32	31	31.
taly	13	4	9	4	11	18	30.
ithuania	4	4		4	14	15	43.
oland	5	4	1	4	9	13	35.
ussia	6	2	4	2	6	7	38.
cotland	4	1	3	1	4	5	49.
lavonia	2	1	1	1	5	6	32.
ot stated	9	4	5	4	9	10	39.
Total	207	123	84	123	283	386	34.

## NONFATAL ACCIDENTS.

Table 52. The number of men injured, number employed, tons of coal mined, the number employed to each one injured, the ratio per 1,000 employed and the number of tons mined to each injury, are shown in this table, by districts.

TABLE 52-Nonfatal accidents, by districts.

District.	Number injured.	Number employed.	Tons of coal mined.	Number of employees to one man injured.	Ratio per 1,000 employees.	Tons mined to one man injured.
First Second Third Fourth Flith Sixth Seventh Eighth Ninth Tenth Truth Tenth Tenth Eleventh Truth Flies Face For Seventh Flith Flith Flith Truth Flith Truth Truth Truth Truth Flith Truth Truth Flith Truth Flith	777 1007 1000 24 168 119 227 178 66 64 374 130	3,144 3,281 4,959 3,442 6,859 7,601 9,001 6,821 5,360 5,501 15,618 9,306	1,779.516 1,823,820 3,593,441 2,790,350 6,716,990 7,684,571 10,240,425 7,667,369 5,755,650 5,218.599 16,079,571 9,684,125 78,983,527	41 31 50 143 41 64 40 38 81 86 42 72	24. 49 32. 61 20. 17 6. 97 24. 49 16. 05 25. 22 26. 10 12. 31 11. 63 23. 95 13. 97	23,111 15,215 35,934 116,265 39,977 64,156 45,112 43,075 87,207 81,541 42,994 74,493

Table 53 presents the record of nonfatal accidents for 35 years.

Table 53—Nonfatal accidents, number employed, tons mined, ratio and proportions, 35 years.

		m-+-1	Total	Num- ber of		Tons	Num- ber in-	Therese	Percei	ntages.
	Num- ber of	Total number	num- ber of	em- ployees	Ratio	coal pro-	jured by	From all	From	
Year.	men	of em-	tons of	to one	per	duced	falling	other	falling	From
	injured.	ployees.	coal	man	1,000.	to one	roof	causes.	roof	all other
			mined.	in- jured.		man injured.	and sides.		and sides.	causes.
				jaiea.		mjarea.	21/162*		sides.	
	i	1				1	1			
1883	231		12,123,456	104	9. 6	52,482	130	101	56.3	43.7
1884	197		12,208,075	130	7. 7		135	62	68.5	31.5
1885	176 171	25,946	11,834,459 11,175,241	147 151	6.8		118 109	58 62	67. 0 63. 7	33, 0 36, 3
1886 1887	180		12.423,066	149	6.7	69,017	124	56	68, 9	31. 1
1888	179		14,328,181	164	6. 1	80,046	112	67	62 6	37. 4
1889	201		14,017,298	150	6. 7	69,738	129	72	64. 2	35, 8
1890	294		15,274,727	97	10.3	51,955	196	98	66.7	33, 3
1891	367		15,660,698	90	11.1	42,672	227	140	61.9	38. 1
1892	370		17,862,276	91	11.0		234	136	63. 3	36.7
1893	403 521		19,949,564 17,113,576	88 74	11. 4 13. 5	49,503 32.848	254 294	149 227	63. 0 56. 4	37. 0 43. 6
1894 1895	605		17,735,864	64	15. 7	29,315		267	55, 9	44. 1
1896	672		19,786 626	55	18, 1	29,444	373	299	55. 5	44.5
1897	518	33,788	20,072,758	65	15. 3	38,751	310	208	59.9	40.1
1898	438	35,026	18,599,299	80	12.5	42,464	252	186	60.9	39. 1
1899	597	36,991	23 434,445	62	16. 1	39,254	335	262	56. 1	43.9
1900	611		25 153,939	. 65	15, 5		323	288	52,9	47. 1
1901	422 406		26,635,319 30,021,300	104 127	9. 6 8. 8	63,117 73,944	233 198	189 208	55. 2 48. 8	44.8 51.2
1902 1903	410		34,955 400	121	8. 2	85,257	190	220	46. 3	53.7
1904	507	54.774	37 .077 .897	108	9, 3	73,132	264	243	52. 1	47. 9
1905	535	59,230	37,183,374	111	9.0	69,502	271	264	50.7	49.3
1906	480	62 283	38.317 581	130	7. 7	79,828	253	227	52.7	47.3
1907	636		47,798,621	105	9, 5	75,155	327	309	51. 4	48.6
1908	819	70,841	49,272,452	86	11.6	60,162	402	417 471	49. 1	50.9
1909	894 742		49,163,710 48,717,853	81 101	12. 3 9. 9	54,993 65,657	423 369	373	47. 3 50. 0	52.7 50.0
1910	709		50,165,099	101	9. 9	70,755	327	382	46. 1	53.9
1912	800		57,514,240	98	10, 1	71,893	364	436	45. 5	54. 5
1913	1,025		61,846,204	78	12.9	60,338	442	583	48. 1	51.9
1914	1,071	80,035	60,715,795	75	13. 4	56,691	472	599	44.1	55.9
1915	1,013		57,601,694	75	13. 4	56,862	450	563	44. 4	55. 6
1916	1,305		63,673,530	58	17. 2	48,792	501	804	38 4	61.6
1917	1.634	80,893	78,983,527	50	20. 2	48,338	597	1,037	36.6	63.4
								J		

Table 54 shows the occupation in which the injured men were employed and gives the number and per cent injured in each.

TABLE 54—NONFATAL ACCIDENTS, BY OCCUPATIONS, WITH PERCENTAGES.

							D	istri	ns.					Per-
Occupation.	Total.	1st.	2d.	3d.	4th.	5th.	6th.	7th.	8th.	9th.	10th.	11th.	12th.	cent- ages.
Assistant mine managers Blacksmiths Cagers Carpenters Cauplers Drivers Electricians Engineers Firemen Laborers Loaders Machine elpers Machine runners Mine examiners Miners Miners Shof firers Shof firers Shof firers Shragers Tripbermen Trappers. Tripbermen Trappers. Trip riders Total. Percentages.	66 66 34 34 260 260 3 3 4 6 6 190 179 2 2 2 4 4 86 2 2 6 6 6 6 6 6 2 9 2 179 119 9 1199 1199 1199 1199 119	1 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	77 	100 75 110 110 110 110 100	2 9 9 5 5 1 1 5 5 1 1 5 5 1 1 5 5 1 1 5 5 1 1 5 5 1 1 5 5 1 1 5 5 1 1 5 5 1 1 5 5 1 1 5 1	11 1 4 4 21 1 2 2 1 6 6 3 5 5 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4	2 29 12 7 7 2 2 511 2 6 3 3 119 7.3	2 2 2 6 6 1 1 1 3 5 5 3 3 3 5 5 4 8 8 4 1 1 1 5 4 8 8 2 6 6 5 1 1 1 9	355 11 177 244  56 3 3  4 13 6 6 178	188	166 11 11 11 11 11 11 11 11 11 11 11 11	3 2 2 8 1 1 1 1 48 1 1 1 1 1 1 1 1 1 1 1 1 1		37. 2 1. 6

Table 55. The conjugal relation and time lost of the injured men is shown in this table, by districts.

Table 55—Conjugal relation of the injured, dependents and time lost, by districts.

Districe.	Total.		Conjugal	relation.		retui	t by men rned. —days.	Number not returned
		Married.	Single.	Children.	De- pendents.	Total.	Average.	to work July 1, 1917.
First. Second Third Fourth Fitth Sixth Seventh Eighth Ninth Tenth Eleventh Twelfth	77 107 100 24 168 119 227 178 66 64 374	59 66 64 12 119 63 138 97 42 44 212 77	18 41 36 12 49 56 89 81 24 20 162 53	181 182 170 28 331 157 334 225 122 69 427 146	196 247 195 35 419 208 453 320 164 112 627 222	2,950 4,020 5,228 1,025 9,512 5,636 9,848 7,547 3,559 3,268 20,005 6,349	50, 00 54, 32 54, 46 73, 21 60, 59 57, 51 55 64 59, 90 54, 75 51, 87 62, 71 51, 62	1: 3: 1: 1: 2: 5: 5:
The State, 1917 The State, 1916	1,634 1,305	993 824	641 481	2,372 1,865	3,198 2,586	78,947 69,556	57. 58 62. 38	26 19

Table 56 shows the cause and number injured by each cause.

Table 56—Nonfatal accidents, by causes, with percentages, by districts,

								Distric	ets.					Per-
Causes.	Total.	1st.	2d.	3d.	4th.	5th.	6th.	7th.	8th.	9th.	10th.	11th.	12th.	cent- ages.
Cage. Caught by objects. Falling cold. Falling cold. Falling cock. Falling slate. Fell. Flying coal Gasexplosion. Litting and pushing Objects. Motor Mule. Pit cars. Powder and shot explosion. Falling cars. Flying coal Salling cold. Flying coal Fl	13 21 20 293 158 126 64 42 23 80 39 44 36 404 97 7 162 93	21 29 1 4 1 1 8 6 1	6	30 3 3 2	3	3 37 34 34 4 8 2 9 2 3 3 1 40	16 4 21 1 2 3	15 12 14 14 12 28 15 9 8 12 48	11 23 4 29 6 9 2 3 8 8 2 4	10 10 1 8 6	1 5 8	5 111 644 9 199 111 111 24 5 136 136		9. 67 7. 71 3. 92 2. 57
Total	1,634	77	107	100	24	168	119	227	178	66	64	374	130	100.00
Percentage	100.00	4.71	6.55	6. 12	1. 47	10, 28	7. 28	13, 89	10. 89	4. 04	3. 92	22, 89	7.96	

Table 57. In this table is shown the number and per cent injured by use of powder, gas explosions, falling roof and sides, pit cars and other causes, for the year by districts and for the preceding 16 years.

Table 57—Nonfatal accidents, by causes, with percentages, by districts, for 1917 and by years—1917-1901.

District on 1	Use of p	owder.	Gas explosions.		Falling and si	g roof des.	Pit c	ars.	Other c	auses.	
District and year.	Num- ber.	Per cent.	Num- ber.	Per cent.	Num- ber.	Per cent.	Num- ber.	Per cent.	Num- ber.	Per cent.	Total.
First Second Third Fourth Fifth Sixth Seventh Eighth Ninth Tenth Eleventh Twelfth	5 	6.5 3.0 4.8 1.7 3.5 5.6 3.0 1.6 4.6	1 2 3 2 2	1. 3 1. 2 2. 5 1. 1 2. 7 3. 8	50 66 52 5 77 41 61 67 19 17 92 50	64. 9 61. 7 52. 0 20. 8 45. 8 34. 5 26. 9 37. 6 28. 8 26. 6 24. 6 38. 5	6 14 7 11 40 30 48 48 16 18 136 30	7. 8 13. 1 7. 0 45. 8 23. 8 25. 2 21. 1 27. 0 24. 2 28. 1 36. 3 23. 1	15 27 38 8 41 43 110 51 51 29 28 130 39	19. 5 25. 2 38. 0 33. 4 24. 4 36. 1 48. 5 28. 7 44. 0 43. 7 34. 8 30. 0	77 107 100 24 168 119 227 178 66 64 374
1917 1916 1915 1914 1914 1913 1912 1911 1910 1910 1909 1909	51 41 27 35 30 21 19 28 38 36 50	3. I 3. 1 2. 7 3. 3 2. 9 2. 6 2. 7 3. 8 4. 2 4. 4 7. 9	23 26 10 23 33 23 11 14 25 35	1. 4 2. 0 1. 0 2. 1 3. 2 2. 9 1. 5 1. 9 2. 8 4. 3 1. 4	597 501 450 472 442 364 327 359 423 402 32,	36, 6 38, 4 44, 4 44, 1 43, 1 45, 5 46, 1 49, 7 47, 3 49, 1 51, 4	404 338 209 291 300 210 211 188 249 209 171	24. 7 25. 9 20. 6 27. 2 29. 3 26. 3 29. 8 25. 3 27. 9 25. 5 26. 9	559 399 317 250 220 182 141 143 159 137	34. 2 30. 6 31. 3 23. 3 21. 5 22. 7 19. 9 19. 3 17. 8 16. 7 12. 4	1.634 1.305 1.013 1.071 1.025 800 709 742 894 819 636

Table 57—Concluded.

District and year.	Use of powder.		Gas explosions.		Falling roof and sides.		Pit c	ars.	Other c	(Table )	
	Num- ber.	Per cent.	Num- ber.	Per cent.	Num- ber.	Per cent.	Num- ber.	Per cent.	Num- ber.	Per cent.	Total.
1903 1905 1904 1904 1903 1902	32 50 54 47 28 27	6. 7 9. 3 10. 6 11. 5 6. 9 6. 4	6 3 6 5 2 3	1. 2 . 6 1. 2 1. 2 . 5 . 7	253 269 264 164 198 233	52. 7 50. 3 52. 1 40. 0 48. 8 55. 2	110 129 123 128 125 113	22. 9 24 1 24. 3 31 2 30. 8 26. 8	79 84 60 66 53 46	16. 5 15. 7 11. 8 16. 1 13. 0 10. 9	48 53 50 41 40 42

Table 58 shows the number of mines operated, men employed, tons produced, men killed and injured with per cent of increase or decrease from year to year, for 35 years.

Table 58—Number of mines operated, men employed, tons produced, men killed and men injured, with per cent of increase or decrease from year to year, for 35 years.

	Mines operated.		Menen	iployed.	Tons pro	duced.	Men l	tilled.	Men injured.		
Year.	Num- ber.	Per cent in- crease (+) de- crease (—).	Num- ber.	Per cent increase (+) decrease (-).	Number.	Per cent increase (+) decrease (-).	Num- ber.	Per cent in- crease (+) de- crease (-1.	Num- ber.	Per cent in crease (+) de crease ().	
\$83 884 885 887 887 887 889 890 890 891 892 892 893 894 993 894 995 896 897 896 897 897 897 898 898 898 898 898 898 898	639 741 778 789 801 822 854 935 918 839 838 836 836 836 831 811 920 910 91 91 91 91 91 91 91 91 91 91 91 91 91	+16.0 +15.0 +15.0 +1.4 +1.5 +2.6 +2.6 +2.6 +2.6 +2.6 +2.7 +2.1 +6.1 +6.1 +6.1 +6.1 +6.1 +6.1 +6.1 +6	23, 939 25, 575 25, 946 26, 804 29, 410 30, 076 28, 574 32, 951 33, 632 35, 390 33, 632 33, 73, 73, 74, 73 44, 774 46, 774 470, 841 70, 841 72, 73, 74, 73, 74, 73, 74, 73, 74, 73, 77, 710 79, 411 79, 447, 77, 410 79, 411 79, 497 80, 593 80, 893 80, 893	$\begin{array}{c} +1.5 \\ -0.377 \\ -0.377 \\ +9.77 \\ +9.73 \\ -0.533 \\ -0.533 \\ +2.52 \\ +8.047 \\ -8.76 \\ +4.55 \\ +12.12 \\ +8.047 \\ -1.21 \\ +$	12, 123, 456, 151, 248, 075, 111, 248, 075, 075, 075, 075, 075, 075, 075, 075	+0.7 -3.1 -5.6 +11.2 +15.3 -2.2 +3.5 +3.5 +3.5 +14.1 -14.2 +3.6 +11.6 +1.7 -14.2 -7.3 +2.6 -1.6 -1.6 -1.7 -1.6 -1.7 -1.6 -1.7 -1.6 -1.7 -1.6 -1.7 -1.6 -1.7 -1.6 -1.7 -1.6 -1.7 -1.6 -1.7 -1.6 -1.7 -1.6 -1.7 -1.6 -1.7 -1.6 -1.7 -1.6 -1.7 -1.6 -1.7 -1.6 -1.7 -1.6 -1.7 -1.8 -1.7 -1.8 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1	134 466 39 52 41 55 42 53 60 60 72 77 77 75 84 84 84 84 94 99 99 99 99 156 157 157 183 213 314 406 157 157 159 159 159 159 159 159 159 159 159 159		231 197 176 171 180 179 201 179 201 370 370 370 370 370 403 403 403 403 403 403 403 406 410 507 507 507 507 107 11,013 1305 1,335	-14.4 -10.0 -2.2 -2.5 -5.5 -5.0 -1.2 -4.6 +1.1 -2.2 -2.5 -5.0 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5	

Table 59 is a recapitulation of the nonfatal accidents, showing nature of injuries, conjugal relation and time lost.

Table 59—Recapitulation of nonfatal accidents, nature of injuries, conjugal relations and time lost.

Notions of intention	North	M	Q'. I	0.71	De-		st—days.	Per cent	
Nature of injuries.	Number.	Married.	Single.	Children.	pendents.	Total.	Average.	of injuries.	
Ankle broken. Ankle injured. Ankle injured. Anm broken. Arm injured. Back injured. Body burned. Body burned. Body burned. Eye destroyed. Eye injured. Eye destroyed. Eye injured. Finger broken. Finger broken. Finger out off. Finger broken. Finger out off. Finger injured. Foot broken. Hand broken. Hand broken. Hand unipured. Leg broken. Leg ut off. Leg injured. Leg broken. Rib broken. Rib broken. Rib broken. Rib broken. Shoulder broken. Shoulder broken. Shoulder broken. Toe eut off. Toe broken. Toe eut off.	25 39 39 39 38 38 38 25 25 55 62 39 77 69 69 61 77 8 8 8 8 31 161 124 222	15 18 26 18 18 18 18 18 19 15 19 15 19 15 19 15 19 19 15 19 19 19 19 19 19 19 19 19 19 19 19 19	10 17 13 15 15 15 15 15 15 17 35 23 33 35 11 1 38 23 23 23 23 24 25 11 17 35 55 21 23 33 35 16 35 17 35 35 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37	39 28 43 39 154 23 333 58 8 103 59 31 21 21 21 22 22 23 4 4 24 5 25 23 146 18 6 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	48 45 45 66 66 66 66 66 71 122 147 88 50 126 66 133 126 66 135 126 66 135 126 66 135 126 66 135 126 66 135 126 66 135 126 126 126 126 126 126 126 126 126 126	1,516 1,409 1,769 1,769 1,769 1,296 4,812 1,444 10,423 1,669 218 3,249 2,878 1,850 2,878 1,850 4,979 2,743 11,596 2,743 1,849 2,743 1,849 2,743 1,849 2,743	75, 80 45, 45 45, 45 45, 52 41, 81 42, 18 60, 17 51, 86 53, 84 43, 60 56, 02 49, 62 56, 06 44, 28 76, 94 110, 00 111,	1. 53 2. 14 2. 14 2. 14 2. 14 2. 16 2. 18 2. 19 2. 10 2. 10 2. 10 2. 10 2. 11	
Total	1,634	993	641	2,372	3,198	78,947	57. 58	100, 00	

Note.—Two hundred sixty-three did not return to work and the lost time is not given.

Table 60. From the best information obtainable the estimated coal production of the State is as shown in this table.

Table 60—Coal production of illinois—1833-1917.

Year.	Quantity in tons.	Year.	Quantity in tons.
33	6,000	1861	670.0
34	7.500	1862	780,0
335	8,000	1863	890,0
36	10,000	1864	1,000.0
37	12,500	1865	1,260.0
38	14,000	1866	1,580,0
339.	15.038	1867	1,800,0
40	61,967	1868.	2,000,0
41	35,000	1869	1,854,0
42	58,000	1870.	2,624,1
43	75,000	1871	3,000.0
44	120,000	1872	3,360,0
45	165,000	1873	3,920,0
46	165,000	1874	4,203.0
47	180,000	1875	4,453,1
48.	200,000	1876.	5,000.0
49	260,000	1877.	5,350,0
50	300,000	1878.	5,700,0
51	320,000	1879	5,000,0
52	340,000	1880	6,115,3
53	375,000	1881	6,720.0
54	385,000	1001	0,120,0
55.	400,000	Total 49 years	73,123,1
56	410,000	Reported to Bureau of Labor, 1882-	10,120,1
57	450,000	1910	708,914,1
58	490,000	Reported to State Mining Board	430.500.0
59	530,000	reported to brate mining board	100,000,0
60.	728,000	Total output of the State	1,212,537,3

Tables 61, 62, 63 and 64 summarizes the items shown in this report.

Table 61—Summary by districts, number of mines and graded output.

	Num- ber	Total tons of			Tons of dif	ferent grad	es.	
Districts.	of mines.	coal produced	Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.
First	52	1,779,516	508,604	731,575	211,816	21,698	267,838	37,985
Shipping Local	14 38	1,427,898 351,618	192,456 316,148	707,223 24,352	211,816	14,775 6,923	264,143 3,695	37,485 500
Second	81	1,823,820	182,003	1,201,022	116,356	8,024	299,248	17,167
Shipping Local	9 72	1,628,019 195,801	93.704 88,299	1,106,819 94,203	116,356	8,024	289,235 10,013	13,881 3,286
Third	97	3,593,441	1,015,918	1,592,970	245,813	57,734	553,287	127,719
Shipping Local	24 73	3,318,856 274,585	894,561 121,357	1,457,554 135,416	245,813	57,734	544,344 8,943	118,850 8,869
Fourth	185	2,790,350	415,717	844,403	733,656	66,972	662,614	66,988
Shipping Local	19 166	2,548,722 241,628	257,252 158,465	766,375 78,028	733,656	66,972	660,999 1,615	63,468 3,520
Fifth	52	6,716,090	2,062,215	2.236,802	410,444	282,383	1,614,906	79,339
Shipping Local	28 24	6,547,072 169,018	1,919,894 142,321	2,245,725 21,077	410,444	282,383	1,609,376 5,530	79,249 <b>9</b> 0
Sixth	34	7,634,571	1,416,755	2,563,889	1,508,800	118,651	1,895,579	130,897
Shipping Local	31 3	7,624,006 10,565	1,416,755	2,555,860 8,029	1,508,800	118,156 495	1,893,538 2,041	130,897
Seventh	34	10,240,425	1,411,753	4,333,510	2,007,085	111,876	1,909,664	466,537
Shipping Local	21 13	10,220,509 19,916	1,394,436 17,317	4,331,228 2,282	2,007,085	111,876	1,909,367 297	466,517 20
Eighth	36	7,667,369	1,247,638	2,874,593	946,505	284,472	1,983,495	330,666
Shipping Local	25 11	7,635,895 31,474	1,231,827 15,811	2,861,926 12,667	946,505	284,472	1,980,499 2,996	330,666
Ninth	63	5,755,650	1,610,724	1,872,673	743,047	216,457	1,224,545	88,204
Shipping Local	47 16	5,652,416 103,234	1,542,437 68.287	1,844,407 28,266	743,047	216,457	1,217,864 6,681	88,204
Tenth	57	5,218,599	1,610,593	1,318,577	670,665	234,647	1,327,265	56,852
Shipping Local	29 28	5,138,500 80,099	1,575,945 34,648	1,284,571 34,006	670,665	234,647	1,316,689 10,576	55,983 869
Eleventh	72	16,079,571	2,986,285	3,023,007	2,606,288	2,026,027	5,149,096	288,868
Shipping Local	42 30	16,035,481 44,090	2,960,283 26,002	3,010,417 12,590	2,606,288	2,026,027	5,143,873 5,223	288,593 275
Twelfth	47	9,684,125	2,883,147	1,627,618	1,332,129	1,440,692	2,114,485	286,054
Shipping Local	35 12	9,634,680 49,445	2,863,838 19,309	1,608,875 18,743	1,332,129	1,440,692	2,104,583 9,902	284,563 1,491
The State	810	78,983,527	17,351,352	24,250,639	11,532,604		19,002,022	1,977,276
Shipping Local	324 486	77,412,054 1,571,473	16,343,388 1,007,964	23,780,980 469,659	11,532,604	4,862,215 7,418	18,934,510 67,512	1,958,356 18,920

TABLE 62—SUMMARY BY DISTRICTS, DISPOSITION OF THE OUTPUT, COAL WASHERS AND TONS OF COAL PREPARED DURING THE YEAR.

		Dispositio	on of outpu	t—tons.			vashers or o preparing	
District and mines.	Shipped from mine.	Supplied to locomotives.	Sold to railroad compa- nies.	Sold to local trade.	Consumed and wasted at the mines.	Num- ber in use.	Average daily eapacity.	Tons prepared during the year.
First	905,234	45,234	284,499	263,297	281,252	1	400	32,754
Shipping Local	905,234	45,234	284,499	130,893 132,404	62,038 219,214	1	400	32,754
Second	695,572	35,827	786,091	229,270	77,060	4	825	110,635
Shipping Local	695,572	35,827	786,091	41,343 187,927	69,186 7,874	4	825	110,635
Third	2,377,905	87,324	664,753	363,130	100,329			
Shipping Local	2,377,905	87,324	664,753	104,585 258,545	84,289 16,040			
Fourth	1,758,112	12,677	687,482	250,823	81,256			
Shipping Local	1,758,112	12,677	687,482	13,039 237,784	77,412 3,844			
Fifth	4,637,812	28,644	1,426,067	465,736	157,831	1	1,000	151,575
Shipping Local	4,637,812	28,644	1,426,067	298,438 167,298	156,111 1,720	1	1,000	151,575
Sixth	4,633,259	38,674	2,345,030	423,704	193,904			
Shipping Local	4,633,259	38,674	2,345,030	413,439 10,265	193,604 300			
Seventh	3,317,119	19,375	6,519,985	103,818	280,128			
Shipping Local	3,317,119	19,375	6,519,985	83,948 19,870	280,082 46			
Eighth	6,348,323	75,474	903,633	139,558	200,381	4	950	458,931
Shipping Local	6,348,323	75,474	903,633	115,994 23,564	192,471 7,910	4	950	458,931
Ninth	4,739,783	98,761	538,895	210,685	167,526	3	1,500	146,834
Shipping Local	4,739,783	98,761	538,895	112,439 98,246	162,538 4,988		1,500	146,834
Tenth	3,650,825	125,589	1,097,181	174,431	170,573	3	500	78,694
Shipping Local	3,650,825	125,589	1,097,181	98,031 76,400	166,874 3,699		500	78,694
Eleventh	. 14,125,535	10,193	1,323,319	164,409	456,113	5	8 2,531	2,514,565
Shipping Local	. 14,125,535	10,193	1,323,319	120,921 43,488			8 2,53	2,514,565
Twelfth	5,926,349	50,110	3,229,48	93,295	384,88	1	8 1,040	1,124,835
Shipping Local	5,926,349	50,110	3,229,48	44,146 49,149	384,58		8 41	1,124,835
The State	53,115,828	627,88	8 19,806,41	2,882,156	2,551,230	6 3	0 1,40	4,618.823
Shipping Local	. 53,115,828	627,88	8 19,806,41	1,577,216 1,304,940	2,284,70 266,53		0 1,40	4,618,828

Table 63—Summary by districts, hand and machine mining, price paid, number of machines used, powder and permissible explosives.

	Tons mi	ned by—	Average ton	price per for—	Number	Powder ı	ised for—	Per- missible explosive
District.	Hand.	Machine.	Hand mining.	Machine mining.	of ma- chines in use.	Blasting coal.	Other purposes.	used for blasting coal— pounds.
First	1,751,502	28,014	\$0.946	\$0.76	3	13,966	602	3:
Shipping Local	1,403,406 348,096	24,492 3,522	\$0.962 , 862	\$0.76	2	3,760 10,206	602	3
Second	1,757,433	66,387	\$0.938	\$0.732	12	23,322	13	3,80
Shipping Local	1,581,632 175,801	46,387 20,000	\$0. 924 1. 082	\$0.682 .85	11 1	15,578 7,744	13	3,80
Third	3,209,357	384,084	\$0.834	\$0.66	34	101,108	328	2,04
Shipping Local	2,954,321 255,036	364,535 19,549	\$0.834 .941	\$0,66 ,52	33 1	89,120 11,988	328	2,045
Fourth	2,069,132	721,218	80. 769	\$0.661	33	131,458	442	50
Shipping Local	1,827,504 241,628	721,218	\$0.731 1.074	\$0, 661	33	129,921 1,537	442	50
Fifth	3,466,022	3,250,068	\$0.681	\$0.58	145	130,190	322	1,87
Shipping Local	3,315,485 150,537	3,231,587 18,481	\$0.674 .815	\$0.58	144 1	125,730 4,460	322	1,87
Sixth	6,231,272	1,403,299	\$0.668	\$0, 591	28	338,035	189	15
Shipping Local	6,220,707 10,565	1,403,299	\$0.675 .668	\$0.591	28	337,470 565	189	15.
Seventh	1,490,302	8,750,123	\$0.665	\$0, 591	269	100,920	183	125,57
Shipping Local	1,480,253 10,049	8,740,256 9,837	\$0.661 1.268	80. 591 . 591	268 1	100,627 293	183	125,57
Eighth	1,576,164	6,091,205	\$0.653	\$0.586	208	114,418	27	25
Shipping Local	1,556,258 19,903	6,079,637 11,568	\$0, 651 . 89	\$0, 586 . 591	207 1	113,865 553	27	250
Ninth	2,751,097	3,004,553	80, 663	\$0.591	146	132,168	5	50
Shipping Local	2,647,863 103,234	3,004,553	\$0.661 .719	\$0.591	146	128,803 3,365	'5	56
Tenth	2,221,796	2,996,803	\$0,635	\$0,568	126	116,645	20	7.
Shipping Local	2,143,291 78,505	2,995,209 1,594	\$0, 634 , 698	\$0.568 .67	125 1	113,222 3,423	20	7.
Eleventh	540,351	15,539,220	\$0,632	80, 551	637	66,778	398	1,687,59
Shipping Local	496,356 43,995	15,539,125 95	\$0.621 .752	\$0.551 *	636 1	65,121 1,657	398	1,687,59
Twelfth	4,686,219	4,997,906	80. 623	\$0.551	279	253,355	45	6,000
Shipping Local	4,636,774 49,445	4,997,906	\$0.621 .84	\$0, 551	279	251,636 1,719	45	6,000
The State	31,750,647	47,232,880	\$0.714	\$0.568	1,920	1,522,363	2,574	1,827,50
Shipping Local	30,263,850 1,486,797	47,148,204 84,676	80. 705 . 916	\$0, 568 . 655	1,912	1,474,853 47,510	2,574	1,827,50

TABLE 64—SUMMARY BY DISTRICTS, EMPLOYEES, DAYS WORKED, CASUAL-TIES, ANIMALS UNDERGROUND, MOTORS IN USE AND NUMBER OF MINES LIGHTED BY ELECTRICITY.

	oer L		Empl	oyces.		ŠΑ	Casua	lties.	ıder	use.	hted
District.	Total number employed.	Miners.	Other under ground.	Boys under ground.	All on the surface.	Average days worked.	Fatal.	Nonfatal.	Animals under ground.	Number of motors in	Number of mines lighted by electricity
First	3,144	2,198	532	47	367	173	6	77	287	6	
Shipping Local	2,568 576	1,781 417	451 81	47	289 78	250 145	5	73 4	287	6	
Second	3,281	2,112	775	95	299	190	3	107	415	9	-
Shipping Local	2,848 433	1,788 324	738 37	95	227 72	245 183	3	105 2	415	9	
Third	4,959	3,328	1,097	92	442	178	6	100	385	27	1
ShippingLocal.	4,511 448	2,984 344	1,050 47	92	385 57	255 153	6	100	385	27	, 1
Fourth	3,442	1,976	1,132	31	303	152	3	24	287	15	1
ShippingLocal	2,880 562	1,485 491	1,119	31	245 58	247 141	3	24	287	15	1
Fifth	6,859	2,677	3,459	113	610	203	16	168	361	52	2
ShippingLocal	6,630 229	2,512 165	3,441 18	113	564 46	211 194	14 2	163 5	361	52	2
Sixth	7,601	4,670	2,139	178	614	231	16	119	605	48	- 2
ShippingLocal	7,578 23	4,658 12	2,139	171 7	610	227 271	16	119	605	48	2
Seventh	9,001	1,133	6,924	176	768	185	32	227	267	101	1
ShippingLocal	8,938 63	1,085 48	6,922	176	755 13	203 157	32	227	267	101	1
Eighth	6,821	1,098	4,953	156	614	189	17	178	407	56	
Shipping Local	6,769 52	1,061 37	4,948 5	156	604 10	207 150	17	178	407	56	
Ninth	5,360	1,962	2,901	40	457	195	10	66	370	42	1
ShippingLocal	5,227 133	1,865 97	2,888 13	40	434 23	188 217	10	66	370	42	1
Tenth	5,501	2,106	2,745	133	517	185	9	64	326	61	1
Shipping Local	5,351 150	2,008 98	2,725 20	133	485 32	200 170	8 1	63 1	326	61	1
Eleventh	15,618	547	13,098	257	1,716	160	55	374	629	249	- 8
ShippingLocal	15,515 103	462 85	13,092 6	257	1,704 12	214 85	55	374	629	249	3
Twelfth	9,306	3,307	4,741	209	1,049	188	34	130	574	78	2
Shipping	9,241 65	3,262 45	4,735	209	1,035 14	205 139	34	130	574	78	2
The State	80,893	27,114	44,496	1,527	7,756	179	207	1,634	4,913	744	21
Shipping Local	78,056 2,837	24,951 2,163	44,248 248	1,520 7	7,337 419	215 154	203	1,622 12	4,913	744	21

# MINE INSPECTION SERVICE.

## ANNUAL REPORT OF STATE INSPECTORS OF MINES.

#### FIRST INSPECTION DISTRICT.

COUNTIES-GRUNDY, LASALLE, LIVINGSTON AND WILL. T. A. LEWIS, Inspector.

Hon. Evan D. John, Director, Department of Mines and Minerals, Springfield.

SIR: I have the honor to submit to you the annual report of this, the First District, comprising the coal producing counties of Grundy, LaSalle, Livingston and Will.

#### SUMMARY OF THE ITEMS IN THE REPORT.

Number of counties producing coal         4           Number of shipping mines         14           Number of local mines         38           Number of new or reopened mines         12           Number of closed or abandoned mines         10           Number of men underground         2,740           Number of boys underground         47           Number of men outside the mine         354           Number of boys outside the mine         3           Number of employees, total         3,144           Total tons of coal produced         1,779,516           Days- of active operation, all mines         173           Kegs of powder used for blasting coal         13,966           Number of statal accidents         6           Number of nonfatal accidents         77           Number of employees to each fatal accident         524           Number of employees to each nonfatal accident         41           Tons of coal produced to each nonfatal accident         296,586           Tons of coal produced to each nonfatal accident         23,111           Ratio of fatal accidents per 1,000 employees         191           The following table gives by counties the output the days worked and		
Number of shipping mines.         14           Number of local mines.         38           Number of new or reopened mines         12           Number of closed or abandoned mines.         10           Number of men underground.         2,740           Number of boys underground         47           Number of men outside the mine.         354           Number of boys outside the mine.         3           Number of employees, total.         3,144           Total tons of coal produced.         1,779,516           Days of active operation, all mines.         173           Kegs of powder used for blasting coal         13,966           Number of fatal accidents.         6           Number of employees to each fatal accident.         524           Number of employees to each fatal accident.         524           Number of coal produced to each fatal accident.         296,586           Tons of coal produced to each nonfatal accident.         296,586           Tons of coal produced to each nonfatal accident.         23,111           Ratio of fatal accidents per 1,000 employees         1.91	Number of counties producing coal	
Number of local mines.         38           Number of new or reopened mines         12           Number of closed or abandoned mines         10           Number of men underground.         2,740           Number of boys underground         47           Number of men outside the mine.         354           Number of boys outside the mine.         3           Number of employees, total.         3,144           Total tons of coal produced.         1,779,516           Days of active operation, all mines.         173           Kegs of powder used for blasting coal         13,966           Number of fatal accidents.         77           Number of employees to each fatal accident         524           Number of employees to each fatal accident         296,586           Tons of coal produced to each fatal accident         296,586           Tons of coal produced to each nonfatal accident         23,111           Ratio of fatal accidents per 1,000 employees         1.91	Number of shipping mines	
Number of new or reopened mines.         12           Number of closed or abandoned mines.         10           Number of men underground.         2,740           Number of boys underground         47           Number of men outside the mine.         354           Number of boys outside the mine.         3           Number of employees, total.         3,144           Total tons of coal produced.         1,779,516           Days- of active operation, all mines.         173           Kegs of powder used for blasting coal         13,966           Number of fatal accidents.         6           Number of nonfatal accidents.         77           Number of employees to each fatal accident         524           Number of employees to each nonfatal accident         41           Tons of coal produced to each fatal accident         296,586           Tons of coal produced to each nonfatal accident         23,111           Ratio of fatal accidents per 1,000 employees         1.91	Number of local mines	
Number of closed or abandoned mines.         10           Number of men underground.         2,740           Number of boys underground.         47           Number of men outside the mine.         354           Number of boys outside the mine.         3           Number of employees, total.         3,144           Total tons of coal produced.         1,779,516           Days of active operation, all mines.         173           Kegs of powder used for blasting coal         13,966           Number of fatal accidents.         6           Number of nonfatal accidents.         77           Number of employees to each fatal accident.         524           Number of employees to each nonfatal accident.         24           Tons of coal produced to each fatal accident.         296,586           Tons of coal produced to each nonfatal accident.         23,111           Ratio of fatal accidents per 1,000 employees         1.91		
Number of men underground.         2,740           Number of boys underground.         47           Number of men outside the mine.         354           Number of boys outside the mine.         3           Number of employees, total.         3,144           Total tons of coal produced.         1,779,516           Days of active operation, all mines.         173           Kegs of powder used for blasting coal         13,966           Number of fatal accidents.         6           Number of employees to each fatal accident         524           Number of employees to each nonfatal accident         296,586           Tons of coal produced to each fatal accident         296,586           Tons of fatal accidents per 1,000 employees         1.91		
Number of boys underground         47           Number of men outside the mine         354           Number of boys outside the mine         3           Number of employees, total         3,144           Total tons of coal produced         1,779,516           Days of active operation, all mines         173           Kegs of powder used for blasting coal         13,966           Number of fatal accidents         77           Number of nonfatal accidents         77           Number of employees to each fatal accident         524           Number of employees to each nonfatal accident         41           Tons of coal produced to each fatal accident         296,586           Tons of coal produced to each nonfatal accident         231,11           Ratio of fatal accidents per 1,000 employees         1.91		
Number of men outside the mine.         354           Number of boys outside the mine.         3           Number of employees, total.         3,144           Total tons of coal produced.         1,779,516           Days of active operation, all mines.         173           Kegs of powder used for blasting coal         13,966           Number of fatal accidents.         6           Number of nonfatal accidents.         77           Number of employees to each fatal accident.         524           Number of employees to each nonfatal accident.         24           Tons of coal produced to each fatal accident.         296,586           Tons of coal produced to each nonfatal accident.         23,111           Ratio of fatal accidents per 1,000 employees         1.91		
Number of boys outside the mine.         3           Number of employees, total.         3,144           Total tons of coal produced.         1,779,516           Days of active operation, all mines.         173           Kegs of powder used for blasting coal         13,966           Number of fatal accidents.         6           Number of nonfatal accidents.         77           Number of employees to each fatal accident         524           Number of employees to each nonfatal accident         296,586           Tons of coal produced to each fatal accident         296,586           Tons of tatal accidents per 1,000 employees         1.91	Number of men outside the mine. 354	
Number of employees, total.         3,144           Total tons of coal produced.         1,779,516           Days of active operation, all mines.         173           Kegs of powder used for blasting coal.         13,966           Number of fatal accidents.         77           Number of nonfatal accidents.         77           Number of employees to each fatal accident.         524           Number of employees to each nonfatal accident.         41           Tons of coal produced to each fatal accident.         296,586           Tons of coal produced to each nonfatal accident.         23,111           Ratio of fatal accidents per 1,000 employees         1.91		
Total tons of coal produced.         1,779,516           Days of active operation, all mines.         173           Kegs of powder used for blasting coal         13,966           Number of fatal accidents.         6           Number of nonfatal accidents.         77           Number of employees to each fatal accident.         524           Number of employees to each nonfatal accident.         41           Tons of coal produced to each fatal accident.         296,586           Tons of coal produced to each nonfatal accident.         23,111           Ratio of fatal accidents per 1,000 employees         1.91		
Days- of active operation, all mines.       173         Kegs of powder used for blasting coal       13,966         Number of fatal accidents.       6         Number of nonfatal accidents.       77         Number of employees to each fatal accident       524         Number of employees to each nonfatal accident       296,586         Tons of coal produced to each fatal accident       296,586         Tons of coal produced to each nonfatal accident       23,111         Ratio of fatal accidents per 1,000 employees       1.91		
Kegs of powder used for blasting coal.13,966Number of fatal accidents.6Number of nonfatal accidents.77Number of employees to each fatal accident.524Number of employees to each nonfatal accident.41Tons of coal produced to each fatal accident.296,586Tons of coal produced to each nonfatal accident.23,111Ratio of fatal accidents per 1,000 employees1.91	Days of active operation all mines	
Number of fatal accidents.         6           Number of nonfatal accidents.         77           Number of employees to each fatal accident.         524           Number of employees to each nonfatal accident.         41           Tons of coal produced to each fatal accident.         296,586           Tons of coal produced to each nonfatal accident.         23,111           Ratio of fatal accidents per 1,000 employees         1.91		
Number of nonfatal accidents. 77 Number of employees to each fatal accident 524 Number of employees to each nonfatal accident 41 Tons of coal produced to each fatal accident. 296,586 Tons of coal produced to each nonfatal accident 231,111 Ratio of fatal accidents per 1,000 employees 1.91		
Number of employees to each fatal accident.524Number of employees to each nonfatal accident.41Tons of coal produced to each fatal accident.296,586Tons of coal produced to each nonfatal accident.23,111Ratio of fatal accidents per 1,000 employees.1.91		
Number of employees to each nonfatal accident. 41 Tons of coal produced to each fatal accident. 296,586 Tons of coal produced to each nonfatal accident. 23,111 Ratio of fatal accidents per 1,000 employees. 1.91		
Tons of coal produced to each fatal accident. 296,586 Tons of coal produced to each nonfatal accident. 23,111 Ratio of fatal accidents per 1,000 employees. 1.91		
Tons of coal produced to each nonfatal accident. 23,111 Ratio of fatal accidents per 1,000 employees. 1.91		
Ratio of fatal accidents per 1,000 employees 1.91		
	The following table gives, by counties, the output, the days worked and	

The following table gives, by counties, the output, the days worked and the number of men employed, 1917 and 1916, with the increase or decrease in each:

	1	917		1	Incr	Decrease.						
County.	Output- tons.	Days worked.	Men em- ployed.	Output- tons.	Days worked.	Men em- ployed.	Tons.	Days.	Men.	Tons.	Days.	Men.
Grundy. LaSalle. Livingston. Will. Total and average Net.	408,064 1,134,584 151,796 85,072 1,779,516	253 159 189 240 173	709 2,019 221 195 3,144	305,000 1,170,200 103,979 128,844 1,708,023	167 240 170	382	47,817	70	53	35,616 43,772 79,388	51	

## NEW MINES.

The following mines have been made or reopened since last report: LaSalle County.—DeMoss and Son, Kangley; Thomas Mitchell, Fred Lawton, Chas. Baldwin, W. Akers, Heenanville Coal Co., Munts Bros., Wonders & Son, McMillen & Son, Joe Blank, Streator; Brooker Bros., Lowell; James Lucas, Manville.

#### ABANDONED MINES.

Ten mines were reported as having been abandoned, or not operated, during the year, as follows:

Grundy County .- James Bell and W. Hodson.

Lasaile County.—Chicago, Wilmington and Franklin No. 3, Acme Coal Co., Jack McNeil, Pratt Coal Co., Smith Bros., Demoss & Son, C. J. Clark, Murphy, Linskey and Kasher.

The following change in ownership will be noted:

Mitchell & Rossi to John Mitchell; Hakes & Lyon to Rutland Coal Co.; Ed Liptack & Son to Lotis W. Liptack.

#### FATAL ACCIDENTS.

August 23, 1916, John Gorski, Miner, age 32 years, married, was killed by falling rock, in the LaSalle County Carbon Coal Company's No. 1 mine, Jonesville, LaSalle County. He leaves a widow and four children.

October 26, 1916, James Price, fireman, age 62 years, single, employed at the Chicago, Wilmington and Franklin Coal Company's No. 3 mine, South Wilmington, Grundy County, died from the effects of burns received the

previous day from escaping steam from the blow-off pipe.

January 4, 1917, Princo Barnebei, miner, age 27 years, single, was killed by a fall of rock in the LaSalle County Carbon Coal Company's mine No. 5, Cedar Point, LaSalle County. Deceased had neglected to set a propunder a loose rock and it fell upon him while at work under it.

March 15, 1917, Frank Kelypan, miner, aged 40 years, married, was killed by falling rock in LaSalle County Carbon Coal Company's Union

mine, Peru, LaSalle County. He leaves a widow.

May 8, 1917, L. Kramersic, miner, age 39 years, married, was killed by flying coal in Mathiesen and Hegeler Zine Company's mine, LaSalle, LaSalle County. He leaves a widow and four children.

June 30, 1917, Thomas Woodfine, miner, age 43 years, married, was killed by falling rock in the Murphy, Linskey and Kasher mine, Pontiac, Livingston County. He leaves a widow and one child.

Respectfully submitted,

T. A. Lewis, Inspector, LaSalle, Illinois.

# FATAL CASUALTIES, FIRST DISTRICT, JUNE 30, 1917.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
	John Gorski. James Price  Primo Barnabei. Frank Kelypan. L. Kramer sic Thomas Woodfine	27 40 39 43	Miner	Cedar Point LaSalledo Pontiac				4		Falling roof. Falling roof. Flying coal. Falling roof.

# RECAPITULATION OF FATAL ACCIDENTS, FIRST DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Cedar Point Clark City. LaSalle Oglesby Pontiac Total	1 2	Fireman Miners	5	Falling roof. Flying coal. Steam	6	C., W. & F. Coal Co. Lasalle Co. C. C. Co. M. & H. Zinc Co. Murphy, Linskey & Kasher	1 3 1

# NONFATAL CASUALTIES, FIRST DISTRICT, JUNE 30, 1917.

3 R. Amerello	Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—
27   John Balbinot   60   Coal City   1	July 17 Aug. 10 10 12 Sept. 6 6 14 Oct. 5 9 Nov. 2 8 8 8 8 13 14 17 20 23	R. Thompson. Louis Naretti. Peter Vecchili John Perot. Jos. Ruc Mike Zamborini. Malcom Hamilton. C. Bertulucci. Joseph Rogel. Barney Bertino. B. Raschiotti. Virg. Foli. John Senth. John Chelebus. Victor Sollatta. Victor Sollatta. John Chelebus. Victor Sollatta. John Seghi. John Seghi. John Seghi. Jenkiso. R. Amerello. Pelix Gamana. Joseph C. Viano. Anton Kosloki. Robt. Lefferty. John Balbinot.	52 56 53 39 41  33 17 62 37 41 32 56 55 60 62 38 54 21 43 67	Gardner Marseilles Cedar Point. Peru. Lasalle Oglesbydo. Godley Godley So. Wilmington .dododododododod		i i i i i i i i i i i i i i i i i i i	5 3 4 1 1 2 4 4 6 6 3 7 7 6 6 7 7 4 4	5 2 4 4 1 1 5 5 2 2 5 5 7 7 4 6 6 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Finger injured, pit car Leg injured, falling rock Leg injured, falling rock Leg injured, falling rock Leg injured, falling coal. Leg injured, falling rock Finger cut off, falling rock Leg broken, falling coal. Hand injured, falling coal. Hand broken, falling rock Leg injured, falling rock Leg injured, falling rock Back injured, falling rock. Back injured, falling rock. Toe injured, falling rock. Ankle injured, falling rock. Ankle injured, falling coal. Finger broken, falling coal. Finger from the falling coal. For injured, falling coal. For injured, flying coal. Hand broken, falling rock. Body injured, not stated. Eye injured, flying coal. Shoulder injured, flying coal. Shoulder injured, flying coal. Shoulder injured, flying coal. Back injured, flying coal. Hand hroken, falling rock. Back injured, flying coal.	39 35 45 30 48 113 466 63 30 63 36 36 36 36 36 42 81 60 49 30

# NONFATAL CASUALTIES, FIRST DISTRICT, JUNE 30, 1917--concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents	Character, of injury and cause of accident.	Time lost-
1916									
Dec. 9	Antone Mikus	55	Peru	1	.:	7	4	Ribs broken, falling eoal	4
2n 27	T. Dirkes Luigi Ulivi	11	Coal City	i	1		1	Body injured, pit car Back injured, falling rock	1
1917									
an. 2	Victor Kachlicj	33	Jonesville	1		3		Body injured, falling coal	
3	Bat. Gays Jas. Champly	45	So. Wilmington	I I		5	3	Ankle injured, falling coal	
9	Manuel Torkio	30	LaSalle	i		4		Back injured, lifting rock	
10	Albert Lessmeister	155	Peru	1		5		Leg broken, falling coal	
11	Barney Blessert	18	So. Wilmington		1			Ankle injured, jumped off car	
17	Russell Sarrett	118	Ogleshy	1	1.1			Foot broken, falling coal	
18	Pasa Ferrouri Joe Guzion	47	So. Wilmington	.:	1	;		Body injured, falling rock	
10	Joe Graff	50	So Wilmington	1				Finger broken, falling rock	
30	E. Mantechi.	29	Cedar Point	1.	i			Head injured, falling rock	
cb. 1	E. Mantechi Ben Henke	30	Coal City	1			1	Body injured, falling rock	
7	Wm. Lebesti	1	Cedar Point			5	(	Body injured, pit car	
10	Gaston Liebnz	33	Peru	13		3	1	Back injured, lifting rock	
12	Frank Roebuck	19	Door Pork	Ιi				Leg broken, pit ear	
19	Frank Peterlin Leo Valentis	48	Ogleshy	Ιi			7	Shoulder injured, falling coal	
19	Dom Cornia	30	Cedar Point	li		3	1	Body injured, lifting car	
24	Fred Cunico	142	Marseilles	1	١	4		Leg injured, falling rock	1
24	Alec. M. Luckie	51	Coal City	1				Eye injured, flying coal	
28	Peter Grott	140	So. Wilmington	4 3			1	Back injured, falling rock	
far. 7	John Schalla M. Franckey	36	Coder Point	1	::	3	1	Arm broken, struck prop	
17	Jno. Hamilton	53	Oglesby	Ιí		2		Foot injured, falling coal	
						2	3	3do	
24	Antone Genett. Aud. Crosetto. Victor Fabish. Antone Crosetto. Louis Buffo. Jasper Domzello. Li Mose	47	LaSalle	1	١			Body injured, falling rock	
26	Aud. Crosetto	108	So, Wilmington	1		3		Collar bone broken, falling coal Body injured, cage	
pr. 9	Anton Crosetto	97	So Wilmington	Ľ	i		1 '	Hand broken, falling rock	
11	Louis Buffo	24	Torino		1			Body injured, pit cars	
13	Jasper Domzello	32	LaSalle	1		2	3	Back injured, lifting coal	
								Wrist broken, falling coal	
24	L. Niniski. Paul Truffa	57	Streator		١	5	1 5	Body injured, pushing car	
							1 1	Eye injured, flying coal	1
fav 1	Fred Rossi Virg. Foli Eli Rasponi Clement Beaumont	30	Streator		i			Head injured, shot explosion	
7	Virg. Foli	37	So. Wilmington	1	١	4	1 8	Body injured, falling rock	
7	Eli Rasponi	. 39	Oglesby	1	١	3		Toe broken, falling rock	
14	Clement Beaumont	. 33	do	1	١-;	1		Leg injured, falling rock	
14	Aug. Slepauek	30	Oglosby	1:	1	5		Body injured, falling coal	
16	Aug. Slepauek Louis Sprindis Valentine Stenovitch	60	LaSalle	1				Shoulder injured, falling rock	
19	Leon		Perm		U	1 0	4	Head injured, falling coal	
21	Dom Bertino	125	So. Wilmington	ı	.   I			Foot injured, falling rock	
23	Battista Barra	46	Coal City		1	3		Shoulder injured, falling coal	
27	Frank Senbak Oreste Picchioni	35	So Wilmington	,	i	1	2	Poot broken, falling rock Toe broken, falling rock	
une 23	Oreste Ficcinoni	00	So. willington		1			- Locality turning to the contraction	
	Total			59	18	181	196	5	
		1							

Number in jured.
 17
 Time lost by men returned to work, days. 2,950

 Number not returned.
 18
 Average days lost.
 50,00

 Number returned.
 59

RECAPITULATION OF NONFATAL ACCIDENTS, FIRST DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Cedar Point. Coal City. Deer Park Gardner. Godley. Jonewille. Lassalle. Marseilles. Oglesby. Peru. Pontiac. Rutland. St. Willington. Streator. Torino.	8 1 1 1 1 1 1 2 11 9 2 1 1 18 2 1	Cager	3 4	Cage	21 1 29 4 1 1 7 6 1	C., W. & F. Coal Co. Ullinois Zinc Co. LaSalle Co. C. C. Co. Manufacturers Coal Co. Manufacturers Coal Co. Murphy, Linskey & Kasher Oglesby Coal Co. Rutland Coal Co. Rutland Coal Co. Wilm, C. M. & Mig. Co. Wilmington Star Coal Co.	2 2 10 1

RECAPITULATION OF NONFATAL CASUALTIES, NATURE OF INJURIES, CON-JUGAL RELATIONS, AND TIME LOST, FIRST DISTRICT, JUNE 30, 1917.

	r.			n.	lents.	Tine los	t—days.	tage uries.
Nature of injuries.	Number	Married	Single.	Children.	Dependents.	Total.	Aver- age.	Percentage of injuries.
Ankle injured Arm broken Arm broken Arm injured Back inju	3 1 1 8 16 2 4 2 2 2 5 3 1 4 3 6 3 4 3 1 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 7 10 2 4 4 2 2 2 1 4 2 2 2 3 5 3 3 3 2 1	1 1 6 6	12 3 3 3 13 41 9 4 4 4 4 15 1 5 4 3 8 13 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	9 4 4 18 41 10 8 6 6 12 2 7 6  5 7 14 10 12 11 11 11 11 11 11 11 11 11 11 11 11	181 32 315 612 107 200 93 108 69 111 141 46 66 67 113 342 128 92 69 43	60. 33 32.00 47, 85 53, 50 50, 00 44, 00 54, 00 55, 50 40, 50 47, 00 46, 00 33, 50 113, 00 54, 60 42, 67 42, 67 42, 67 43, 50 43, 50 43, 50	3.90 1.30 10.38 20.77 2.60 5.19 2.60 2.60 6.49 3.90 5.19 3.90 5.19 3.90 5.19 3.90 5.19 3.90 5.19 3.90 5.19 3.90 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19
Total	77	59	18	181	196	2,950	50, 00	100.00

One not returned to work.
 Three not returned to work.
 Two not returned to work.



GRUNDY COUNTY,

					Dispos	sition of o	output.	•
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
	SHIPPING MINES.							
$\frac{1}{2}$	Chi., Wil. & Frank. C. Co., No. 3 Wilmington Star M. Co., No. 7	S. Wilm'gton Coal City	276,380 129,884	239,117 110,413		18,097 8,177		9,251 4,356
	Total		406,264	349,530		26,274	16,853	13,607
	LOCAL MINES.							
1	John & George Mitchell	Morris	1,800				1,800	
	Total—3 mines		408,064	349,530		26,274	18,653	13,607

Mines in 1916, 5. Abandoned mines, 2. Mines in 1917, 3.

## LASALLE COUNTY,

SHIPPING MINES.  1 Oglesby Coal Co	LaSalle do do do Peru LaSalle Deer Park Seneca Rutland	197,584 189,860 180,220 97,589 72,645 60,853 53,524 22,374 11,125	50,513 12,749 9,113	20,202 7,095 49	113,713 15,872 6,298 3,418 2,704	2,801 3,931 42,241 1,534 22,194 622 5,765 870	12,273 7,427 889 2,347 2,922 2,389 1,107
15 William Francis 16 Wm. Bottomley 17 Grover Gilbert 18 Thomas Mitchell 19 Herrick Clay Mfg. Co. 20 Fred Lawton. 21 Brooker Bros. 22 Thomas Mooney.	Streatordo Ottawado. Streatordo dodo Kangley. Oglesby. Kangley. StreatorTonica. Streator	30,524 17,500 6,936 5,330 3,309 1,1706 1,706 1,706 600 300 2505 200 156 145 135				6,936 3,300 2,821 1,842 1,706 1,706 1,855 1,000 1,000 400 3000 250 156 145 135	1,271 5,330 270 100

# FIRST DISTRICT, 1917.

od for	ble ex-	tic	pec- ons 7—	ation.		Tons	niaed.	namber		eci- ats.	ia use.	under-		oal washe other spe eparing p	cial plant.	
Kegs of powder used for blasting.	Pounds of permissible plosives used.	State inspector.	County inspector.	Days of active operation.	Total employees.	By hand.	By machine.	Mining machines— in use.	Killed.	Injured.	Number of motors	Number of animals ground.	Number in use.	Average daily capacity.	Tons prepared during the year.	V
	21	7714	1 1 2	259 275 267	480 223 703	276,380 129,884 406,264			1	19 8 27		39 21 50	i	400	32,754	
	21	-4 -18	1 3	225 253	709	1,800				27		50	 1	400	32,754	

# FIRST DISTRICT, 1917.

1	1								1	_	-		1	1
	. 4 . 5 . 5 . 5 . 6	1 1 3 2 2 1 1 2 2	269 236 262 273 262 250 277 283 66	312 350 279 201 142 149 85 34 65	189,860 180,220 97,589 72,645 36,361 53,524 22,374	24,492	····· 2	1 1 1	10 8 1 5 6 9 2	2 2	54 44 17 27 26 14 13 2			
	50	15	242	1,617	861,282	24,492		3	42		207	_		
	. 30	10	242	1,017	301,232	24,402			-12		201			
, 265	. 6	2	273	155	166,626	3,522	1	1	2					
		2	266	65	30,524				2					
318		· · · · i	287 240	19 11	17,500									
318			240	7										
12			200	3	3,300									
	. 2	:	130	13	3,091									
75 33			160 262	6 7										
35	. 5		300	6										
10	. 6	1	300	26	1,185									
			100	6	1,000									
35			100	4	1,000									
23			60	5	600									
5	. 2	1	70	4	400									
16	. 3		65	4	300									
	- 2		40	3	250									
	- 1	1	65 50	23	200									
	: i		80	2	156 145									
5			60	2 3 2 1										
3	1		70	ĩ	127									
5			50	2	125									
			90	2	120									

					Disposition of output.						
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship-ment.	Tons supplied to locomotives at the mines.	Tons sold to railroad companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
26 27 28	W. Akers. Lottis Liptak. Heenanville Coal Co.  Total.  Total—37 mines.		50 35 35 248,810 1,134,584	469,594	28,512	258,225	50 35 30 80,828 167,904	5 167,982 210,349			

Mines in 1916, 37. New mines, 7. Abandoned mines, 7. Mines in 1917, 37.

## LIVINGSTON COUNTY,

SHIPPING MINE	es.						
1 Murphy, Linskey & K Co., No. 1 2 Fairbury Coal Co., We	asher Coal Pontiac Fairbury	. 38,398 27,000		16,722		17,900 4,904	2,229 235
Total		. 65,398	23,408	16,722		22,804	2,464
LOCAL MINES							
1 Streator Clay Mfg. Co. 2 Barr Clay Co. 3 Munts Bros. Coal Co.	Streator	. 29,785 19,404					29,785 19,404
3 Munts Bros. Coal Co.	operativedo	. 16,775			· · · · · · · · · · · ·	16,000	775
Coal Co. 5 Wonders Bros	Fairbury	. 15,014				14,253	761
6 McMillen & Son	dodo	. 1.200				1,193	7
7 Joe Blank 8 James Lucas	do Manville	160				160 60	
Total		. 86,398				35,666	50,732
Total—10 mine	es	. 151,796	23,408	16,722		58,470	53,196
				1			

Mines in 1916, 5. New mines, 5. Mines in 1917, 10.

#### WILL COUNTY,

=	SHIPPING MINES.						
1	Wilm. C. M. & Mfg. Co., No. 6	Torino	70,462	62,702	 	4,160	3,600
	LOCAL MINES.						
1	Oswald & Young	Braidwood	14,610		 	14,110	500
	Total—2 mines		85,072	62,702	 	18,270	4,100

Mines in 1916, 3. Abandoned mines, 1. Mines in 1917, 2.

## FIRST DISTRICT, 1917—concluded.

od for	ple ex-	Ins tic by	ns	operation.		Tons	Tons mined.		Acder	eci- nts.	in use.	under-	C pi	oal wash other spo reparing	ers or ecial plant.
Kegs of powder used blasting.	Pounds of permissible plosives used.	State Inspector.	County inspector.	Days of active opera	Total employees.	By hand.	By machine.	Mining machines—in use.	Killed.	Injured.	Number of motors	Number of animals a ground.	Number in use.	Average daily capacity.	Tons prepared during the year.
		1 5 2	i	20 25 6	2 11 4	50 35 35									
8,766		66	12	132	402	245,288	3,522	1	1	4					
8,766		116	27	159	2,019	1,106,570	28,014	3	4	46	<del></del> 6	207			

## FIRST DISTRICT, 1917.

5	1 259 2 249	58 40	38,398 27,000			1	2		6 5			
9	3 25	98	65,398			1	2		11			
3	2 293 200 300	48 11 14	19,404									
	33	3	4,000 1,200 160									
15	4 173	123	86,398									
-	3 3 2 3 4 2 1	3 2 293 3 2 293 2 300 3 2 244 4 150 2 13 1 35 1 25	3 2 293 48 200 11 2 300 14 4 24 4 150 13 2 218 3 1 1 25 1 15 4 173 123	3 2 293 48 29,785 20 11 19,494 22 300 14 15,014 4 150 13 4,000 12 13 19,494 11 10 12 13 10 10 11 10 10 11 10 10 11 10 10 11 10 10	9 3 254 98 65,388  3 2 293 48 29,785 2 300 14 16,775 3 2 244 24 15,014 4 150 13 4,000 2 138 9 1,200 1 25 1 60 15 4 173 123 86,398	3 2 293 48 29,785	9 3 254 98 65,398 1 3 2 293 48 29,785 2 2 300 11 19,404 2 2 300 14 16,775 3 3 2 244 24 15,014 4 150 13 4,000 2 2 138 9 1,200 5 1 35 3 100 5 1 25 1 60 5.398	9 3 254 98 65,398 1 1 2  3 2 293 48 29,785 2 2 300 11 19,494 2 2 300 14 16,775 3 2 244 24 15,014 4 150 13 4,000 2 2 138 9 1,200 2 1 3 1 25 1 60 1 1 25 1 60 1 1 5 4 173 123 86,398	9 3 254 98 65,308 1 2 3 3 2 293 48 29,785 20 11 19,404 22 300 14 16,775 3 2 244 24 15,014 4 150 13 4,000 2 2 138 9 1,200 2 13 35 3 160 11 25 15 4 173 123 86,308	9 3 254 98 65,338 1 2 1 1 2 11  3 2 293 48 29,785	9 3 254 98 65,338 1 2 11 1 3 11 3 3 2 293 48 29,785 2 2 300 11 19,404 2 2 300 14 116,775 2 3 3 2 244 24 15,014 4 150 13 4,000 2 13S 9 1,200 2 13 3 3 160 2 1 3 5 1 60 1 1 2 5 1 60 1 1 5 4 173 123 86,398	9 3 254 98 65,308 1 2 11

## FIRST DISTRICT, 1917.

1	7	1	279	150	70,462	 	 2		19	 	1
1	==	_	_		14,610 85,072	 	 	_		 	 1

## SHIPPING MINES, RECAPITULATION BY

					Dispos	ition of o	utput.		d for	ple ex-
Number.	Counties.	Number of mines.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to railroad companies and loaded on cars.	Sold to local trade.	Consumed or wasted at the mine.	Kegs of powder used for blasting.	Pounds of permissible ex- plosives used.
1 2 3 4	Grundy. LaSalle. Livingston. Will.	2 9 2 1	406,264 885,774 65,398 70,462 1,427,898	349,530 469,594 23 408 62,702 905,234	28,512 16,722 45,234	26,274 258,225 	1",853 87,076 22,804 4,160 130,893	13,607 42,367 2,464 3.600 62,038		21 10 31

#### LOCAL MINES, RECAPITULATION BY

2 LaSalle     28     248,810     80,828     167,982     8,766       3 Livingston     8     86,398     35,666     50,732     1,4610       4 Will     14,610     14,110     504       Total     38     351,618     132,494     219,214     10,206       The district     52     1,779,516     905,234     45,234     284,499     263,297     281,252     13,966	Total	28 8 1 38	248,810 86,398 14,610 351,618		······		80,828 35,666 14,110 132,404	219,214	8,766 1,440  10,206	
---	-------	--------------------	--	--	--------	--	---------------------------------------	---------	------------------------------	--

## ALL MINES, RECAPITULATION BY

2	GrundyLaSalle	3 37	408,064 1,134,584	349,530 469,594	28,512	26,274 258,225	18,653 167,904	13,607 210,349	8,766	21
3 4	Livingston	10 2	151,796	23,408	16,722		58,470	53,196	5,200	10
	Total	52	1,778,516	905,234	45,234	284,499	263,297	281,252	13,966	31

Whole number of mines reported for 1916, 50. Number of new and reopened mines during the year, 12. Number of mines abandoned during the year, 10. Whole number of mines reported for 1917, 52.

## COUNTIES, FIRST DISTRICT, 1917.

ation.		Tons	nined.	.53	Accid	lents.		nd.	Coal wa	shers or al prepa plant.		
Days of active operation.	Total employees.	By hand.	By machine.	Number of machines.	Killed.	Injured.	Number of motors.	Animals underground	Number in use.	Average daily capacity.	Tons prepared dur- ing the year.	Number.
267 242 254 279 249	703 1,617 98 150 2,568	70,462	24,492	2	1 3 1	27 42 2 2 73	6	50 207 11 19 287	1	400		1 2 3 4

## COUNTIES, FIRST DISTRICT, 1917.

225 6 132 402 173 123 200 45 145 576	86,398 14,610 348,096		1 4 1 4 6 77 6		
--	-----------------------------	--	----------------------	--	--

# COUNTIES, FIRST DISTRICT, 1917.

253 159 189 240	221 195	1,106,570 151,796		3	1 4 1 1	27 46 2 2 2	6	50 207 11 19 287	 	1 2 3 4
1/3	3,144	1,751,502	28,014	3		- "	0	287	 	

## SECOND INSPECTION DISTRICT.

COUNTIES—BUREAU, HENRY, KNOX, MERCER, ROCK ISLAND, STARK AND WARREN. WALTER WAITE, Inspector.

Hon. Evan D. John, Director, Department of Mines and Minerals, Springfield.

Sir: I have the honor to submit to you the annual report of this, the Second District, comprising the coal producing counties of Bureau, Henry, Knox, Mercer, Rock Island, Stark and Warren.

#### SUMMARY OF THE ITEMS IN THE REPORT.

Number of counties producing coal	7
Number of shipping mines	9
Number of local mines	72
Number of new or reopened mines	15
Number of closed or abandoned mines	14
Number of men underground	2.887
Number of boys underground	95
Number of men outside the mine	290
Number of boys outside the mine	9
Total number of employees	3,281
Total tons of coal produced	,628,019
Days of active operation, all mines	189
Kegs of powder used for blasting coal	23,322
Number of fatal accidents	3
Number of nonfatal accidents	107
Number of employees to each fatal accident	1,094
Number of employees to each nonfatal accident	31
Tons of coal produced to each fatal accident	542,673
Tons of coal produced to each nonfatal accident	15,215
Ratio of fatal accidents per 1,000 employees	.91
The following table since by counting the output the days	Troubrod.

The following table gives, by counties, the output, the days worked and the number of men employed, 1917 and 1916, with the increase or decrease in each:

	1	917		1	1916		Incr	ease.		De	creas	е.
County.	Output- tons.	Days worked.	Men em- ployed.	Output- tons.	Days worked.	Men em- ployed.	Tons.	Days.	Men.	Tons.	Days.	Men.
Bureau. Henry. Knox Mercer Rock Island Stark Warren.	1,390,552 45,951 38,940 264,452 57,727 18,257 7,941	249	2,537 93 82 381 99 66 23	1,298,582 50,019 17,140 354,009 29,937 13,531 5,440	223 136 170 140 167	2,827 116 82 468 83 53 20	91,970 21,800 27,790 4,726 2,501	26 32 2 29	16 13 3	4,068		290 23 87
Net Total and average	1,823,820	190	3,281	1,768,658	168	3,649	148,787 55,162	22	32	93,625		400 368

#### NEW MINES.

The new or reopened mines are as follows:

Bureau County,-Nelson and Moran, Wm, J. Masters, A. M. Mapes, Sheffield.

Henry County.-Herman, Carlson and Johnson, Kewanee.

Knor County.-W. H. Bowman & Co., Rapatee; James D. Gale, Victoria; C. J. Bangston, Wataga.

Mercer County,-Wm, Rodensky, Viola; John Taylor, Oscar Thomas,

Rock Island County,-Pryce Coal Co., Coal Valley.

Stark County.-W. J. Duncan, Neponset; T. 1. McDaniel, John Thornycroft, Wyoming.

#### Abandoned Mines.

The following have not been reported this year and are classed as abandoned mines:

Henry County.—Joseph Engle & Co., Northeast Coal Co., Kewanee. Knox County.—Peter Clara, Middlegrove; McGovern & Layhs, Oneida;

Daniel Pearson, Rapatee.

Mercer County .- R. W. Peterson, Aledo; S. J. Young, New Windsor.

Rock Island County .- Jameison & Irwin, Lair & Schraeder, Moline; Pryce Coal Co., Coal Valley,

Stark County.—Curtis & Adleman, T. T. McDaniel, Wyoming; C. J. Newton, Toulon.

Warren County .- Bryner Bros., Roseville.

#### CHANGE OF NAME,

Charles Gladfelter to J. E. Walsh; Charles Morgan to A. D. Morgan; Clyde Morse to Homer Morse; Lee and Hagman to McCrame and Lee; Cook and Oltman to David Cook; Waite Bros, to Jesse Saville.

#### 'IMPROVEMENTS.

The St. Paul Coal Company, Cherry, Bureau County, has driven two new air-courses and built two concrete over-casts which has added four more splits to the ventilation.

The Springvalley Coal Company, at mine No. 1, Springvalley, has installed one 200-kilowatt motor-generator set, taking 2,300 volts, alternating current from a high tension feed line, generating 275 volts, direct current, which is conducted down the shaft by means of a cable incased in a 3-inch conduit. The power is transmitted for the purpose of operating mining machines and haulage motors, and there is in operation at this time three 7-ton General Electric Co. haulage motors, eight Sullivan and one Goodman longwall mining machines. All haulage roads and partings have been enlarged and retimbered, to accommodate motor haulage, and 11,700 feet of trolley wire, protected by section insulators, has been strung. This mine is being gradually changed from pick to machine mining, and will be an exclusive machine mine, the first longwall mine in this district to be operated exclusively with mining machines. This company is also improving and enlarging the wash-houses at mines 1, 3 and 5.

The Illinois Third Vein Coal Company at mine No. 1, Ladd, Bureau County, has installed two 7-ton Westinghouse haulage motors and purchased seven Sullivan longwall mining machines, two of which have been installed and working, two more have just been received and the other three will be received within the next two months. This mine will be operated exclusively with mining machines. New guides have been placed in the hoisting shaft, and about sixty feet of the escape shaft relined.

The Coal Valley Mining Company, at mine No. 3, Matherville, Mercer County, is opening a new slope on the north side of Edwards River. On the south side of Edwards River they are opening a new slope into a new coal field. The air shaft is being sunk and 5,100 feet of electric transmission line to convey electric power from the Rock Island Southern Lines to operate in this new mine is being built, and 2,300 feet of new track between the two new slope openings and a steel bridge across Edwards River are under construction. All of the above improvements are for the purpose of mining and hauling the coal from the new field on the south side of Edwards River to the tipple at mine No. 3.

The Alden Coal Company, at mine No. 7, Matherville, Mercer County, has made contract for electric power and electric haulage and electric pumps

will be installed as soon as delivery can be made.

#### FATAL ACCIDENTS.

July 8, 1916, William Billard, cager, age 24 years, married, was killed by rock falling from top landing and striking him on the head, in St. Paul Coal Company's mine, Cherry, Bureau County. He leaves a widow and one child.

November 21, 1916, Victor Cantelli, miner, age 32 years, married, was killed in St. Paul Coal Company's No. 2 mine, Cherry, Bureau County, by falling coal. He leaves a widow and two children.

May 26, 1917, Anton Savant, trapper, age 17 years, single, was killed by a motor in the No. 5 mine, Springvalley Coal Company, Springvalley, Bureau County. He leaves three dependents,

Respectfully submitted,

Walter Waite, Inspector, Springvalley, Illinois.

#### FATAL CASUALTIES, SECOND DISTRICT, JUNE 30, 1917.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
1917	Wm, BillardVictor Cantelli Anton Savant	17	Trapper	Dalzell	1	1			3	

### RECAPITULATION OF FATAL ACCIDENTS, SECOND DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Cherry. Dalzell	2	Cager Miner Trapper	1 1 1	Falling rock Falling coal Motor	1 1 1	St. Paul Coal Co Springfield Coal Co	2
Total	3		3		3		3

# NONFATAL CASUALTIES, SECOND DISTRICT, JUNE 30, 1917.

Date.	Name.	Age.	Residence.	Marrled.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost-days.
1916	Tarso Grossi Dom Chokette Andrew Waselefski John Oriente Jos Stephanites Rube Reed Sam Carotte Joe Lorenzo Abram Mini Andreona Caribona Wm. Burba Jos Smith Blot Martinites Blot Martinites Pla Borelli Jas Rougerio B. Petroski Marull Catti Victor Gianetta Janes Murphy Barney Braner Tony Robiza John Ovington Isadore Petkus James Williams Joe Baltrushaites John Sandres John Sandres James Williams Joe Baltrushaites John Sandres John Selvinski John Sandres John Selvinski John Sandres John John John John John John John John								91
July 12	Tarso Grossi	33	Cherry	1		5	6	Leg injured, not stated Eye injured, foreign substance Leg injured, falling coal Foot injured, falling rock	31 33
16	Andrew Waselefski	50	Springvalley	1		5	6	Leg injured, falling coal	42 30
20 25	John Oriente Joe Stephanites	39	Springvalley	1	::		1	do	82
26	Rube Reed	27	Cherry	1			1	Body injured, fell off railroad car.	68 33
28	Joe Lorenzo	30	Cherry	1		3	4	Hand injured, pit car Wrist injured, pushing car Body injured, pushing car	102
31	Abram Mini	45	Ladd	1	ı.		1	Body injured, pushing car	45
Aug.	Wm. Burba	36	Cherry	i		3	4	Finger injured, falling rock Toe injured, pit car	70 32
3	Jos Smith	50 25	Springvalley		1			Body injured, throwing coal Finger injured, falling coal Head injured, falling rock	91
1	A. Rothenberger	30	do		î			Head injured, falling rock	34 61
13	Pia Borelli	45	Cherry	1				Toe injured, falling rock Eye injured, foreign substance	70
19	B. Petroski	35	Springvalley		i			Body injured, falling coal Hand broken, falling rock Hand injured, fell	36
2	Marull Catti	17	Cherry	l'i	1		ļ	Hand broken, failing rock	55
2	James Murphy	24	do		1			Finger injured, hand saw Body injured, lifting coal	31 60
3	Barney Braner	21	Springvallev		1			Leg injured, pit cars	- 68
Sept.	John Ovington	17	Cherry		1:			Finger injured, pit car Foot injured, falling coal	3:
1	Isadore Petkus	3	Springvalley			il	1	0 Foot injured, lailing coal, Shoulder broken, fell off engine Hand injured, pit car. Leg injured, pit car. 4 Rib broken, falling coal. 3 Leg injured, falling rock. 3 Arm injured, throwing coal. Ankle broken, falling rock.	50
1	Joe Baltrushaites	41	Springvalley					Hand injured, pit car	11
2 2	O.A. Tabor	3	Kewanee				2	Rib broken, falling coal	4:
2	Charles Pomatto	30	Springvalley	-	١.		2	3 Leg injured, falling rock	3
2	Paug Tamari	3	do			il	-	Ankle broken, falling rock	14
Oct.	Joe Slevinski	. 4	Springvalley		١.		5	Finger broken, falling rock.  Hand broken, falling rock.  Finger broken, falling rock.  Leg injured, falling coal.	6
1	7 Karl Bilskas	3	)do		i .		2	3 Finger broken, falling rock	5
2	John Ambrose	. 5	Springvalley	-	1 -	-	5	6 Leg injured, falling coal 3 Leg injured, jumped off car 0 Back injured, falling rock 3 Ankle injured, falling rock Head injured, falling rock Ankle injured, falling coal 1 Toe injured, falling coal 1 Foot injured, falling rock	7
NOV.	3 Bapt Marchiando 4 Isadore Petkus	4	7 do		il:		9 1	0 Back injured, falling rock	3
	4 John Dacol	. 4	Cherry		1 -		2	3 Ankleinjured, fallingrock	4
	6 Charles Galette	. 1	do			1		Ankle injured, pit car	5 9
	7 Alf Bonucie	- 5	5do	-	1 -		-	1 Toe injured, falling coal	3
	8 Joe Stanites	. 5	7 do	:	1 .	.	6	1 Foot lighted, failing rock. 1 Hand injured, falling rock. Leg broken, falling rock. Eye injured, foreign substance. Leg broken, falling coal.	3
1	0 Juliues Wenski	. 4	8do	-	1 .		-	1 Hand injured, falling rock	
Dec.	2 Sam Parise	1	9 Ladd	:		1		Eye injured, foreign substance	5
	2 Charles Johnson	. 5	5 Sherrard	- -	;	1		Leg broken, falling coal	3
1	4 John Altvater	. 0	1do		1:		2	Body injured, pit car Head injured, struck by coal Finger injured, falling rock	6
-	70 Frank Blatnek	- 3	5do	-	1 .	i	5	Leg injured, falling rock	
1917	M. Grebas	. 0	3	1	-	1		. Dog anjure a, to this a seed	5
Jan.	2 J. Corgiat	- 4	2do	-	1 .	i	3	4 Head injured, falling coal Arm injured, falling rock 6 Rib broken, fell Leg injured, falling coal 3 Body injured, falling coal	1
	19 Dom Chokette	. 4	1do		i.		5	6 Rib broken, fell	7
	20 Dom Palai	- 2	Springvalley		i	1	2	3 Body injured, falling coal	5
	31 Joe Weilgot		6 . do		il.				
Feb.	1 Charles Poplis	3	8do		1 .	i	2	3 Foot injured, falling rock	'
	3 Dukin Lord		4 Cherry		i.		6	7 Leg broken, falling rock	13
	8 John Kowadis	- 2	Springvalley		i	1	3	3 Leg broken, falling coal	10
	15 M. Ferrarini		29 Cherry		1		2	3 Back injured, pushing car	1 4
	22 John Pellegrini		Springvalley.		1	i	3	Ribs broken, falling rock	
	28 Olente Ilante		5 Cherry		1		3	4 Finger injured, piling props	- 5
26	28 Severio Boggio	3	32 Springvalley.		1	-	2	1 Rody injured, falling rock	
Mar.	2 J. Corgiat 16 Geo. Petkerage. 19 Dom Chokete. 20 Dom Palai. 27 George Moroso. 31 Joe Weilgot. 1 Charles Poplis. 2 Peter Clary. 3 Dukin Lord. 8 John Kowadis. 22 Wm. Frey. 15 M. Ferrarini. 24 John Pellegrini. 24 John Pellegrini. 24 John Jekub. 25 Severio Boggio. 6 James Clinton. 7 Frank Bervick. 14 Anton Tomashaites		33 Cherry		1		6	3 Foot injured, falling rock. Leg broken, falling cocal. Leg broken, falling cocal. Body injured, pit car. 3 Leg broken, falling cocal. 3 Leg broken, falling cocal. 4 Back injured, pushing car. 4 Back injured, falling rock. 8 Ribs broken, falling rock. 3 The njured, falling rock. 1 Body injured, falling rock. 7 Rib broken, falling cocal. 7 Toes injured, falling rock.	-
	14 Anton Tomashaites	1	2 Springvalley.		1		6	7 Toes injured, falling rock	- ]

NONFATAL CASUALTIES, SECOND DISTRICT, JUNE 30, 1917—concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	days.
29 Apr. 3 14 14 14 12 17 May 3 4 4 4 7 7 7 7 10 11 14 16 17 17 24 24 21 21 21 22 22 22 23 23	James Goodrick M. Kairis Harry Di Grandele. Victor Olson Ignatz Rimkus. Stiney Komanski John Marconi John Johnson Pete Naulis. Hugh Patterson Premo Wussrelli Joe Liblez. Louis Youcitis Joe Slavitski Clement Barto John Wilkaites Jake Fourasich Anton Bonassi Tom Balski Geo. Skinkus. Frank Zarma. Simon Bugis Octave Minier Wm. Cox. John Handley. An Irew La Burbo. Carlo B Miramini Andon Goodrick Anton Pellegrini Anoreto Capitano Henry Huys. Frank Zarma Henry Huys. Frank Paro- Primo Lanzi Tom Palser Prank Faro- Primo Lanzi Tom Palegrini Anoreto Capitano Henry Huys. Frank Faro- Primo Lanzi Tom Paterson. Charles McCook.	68 27 31 32 42 50 50 43 42 50 50 43 50 50 43 50 50 43 50 50 50 50 50 50 50 50 50 50 50 50 50	do. do. do. do. Matherville Springvalley. do. do. do. do. do. springvalley Ladd do. do. do. do. do. do. do. do. do. d	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		333333333333333333333333333333333333333	3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4	Hand injured, falling timber Head injured, falling rock Leg injured, pit car Foot injured, falling rock Toe injured, falling rock	63************************************
Number Number	ot returned to work, Ju- injured not returned to work .				T	ime l verag	ost b se da	y men returned, days	)20 32

### RECAPITULATION OF NONFATAL ACCIDENTS, SECOND DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No
Cherry Dalzell Sewanee Ladd datherville Rapatee therrard pringvalley Vanlock	2 1 6 2 1 1 59 1	Blacksmith Cager Drivers Laborers Miners Spragger Trappers	1 7 19	Falling coal. Falling rock Falling timbers Fell Fell off car Foreign substance Litting coal Motor Pit car Pushing car Struck by objects. Not stated.	44 2 2 4 6 3 1	Alden Coal Co	3
Total	107		107		107		10

RECAPITULATION OF NONFATAL CASUALTIES, NATURE OF INJURIES, CONJUGAL RELATIONS, AND TIME LOST, SECOND DISTRICT, JUNE 30, 1917.

Nature of injuries.	Number.	Married.	Single.	Children.	Dependents.	Time los	Todays.	Percentage of injuries.
Ankle broken Ankle injured Ankle injured Back injured Back injured Body injured Collar bone broken Eye injured Finger broken Finger broken Finger injured Foot broken Foot injured Hand broken Hand injured Head injured Leg broken Leg broken Head injured Shoulder broken Holder broken Holder broken Holder broken Holder broken Holder broken Shoulder injured Witst injured Total	2 3 3 2 5 111 1 6 1 8 8 2 14 2 6 6 6 6 13 5 1 2 100 1 1 107	1 1 5 6 1 1 5 1 3 1 1 12 2 7 4 3 2 7 1	2 2 1 1 5 1 2 2 2 2 3 3 4 6 1 1 3 4 4 4 4 1	2 2 14 8 14 2 12 12 	3 3 19 13 1 19 3 15 1 57  10 11 10 27 24  20 4	192 117 32 74 522 226 54 353 36 376 148 172 236 159 435 210 117 409 102	96, 00 39, 00 32, 00 37, 00 58, 00 45, 20 54, 00 47, 00 47, 00 47, 00 47, 20 79, 50 63, 57 52, 50 50, 50 50 50, 50 50 50, 50 50 50 50 50 50 50 50 50 50 50 50 50 5	1. 87 2. 80 1. 87 4. 67 7 10. 28 9. 93 5. 61 1. 87 7. 48 1. 87 7. 61 1. 5. 61 5. 61 5. 61 5. 61 5. 61 9. 93 9. 93 90 90 90 90 90 90 90 90 90 90 90 90 90

<sup>1</sup> One not returned to work.
2 Three not returned to work.
3 Two not returned to work.
4 Six not returned to work.
5 Four not returned to work.

					Dispos	ition of c	output.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
_	SHIPPING MINES.							
1 2 3 4 5	St. Paul Coal Co. No. 2	Cherry Springvalleydo Dalzell Ladd	322,288 321,954 268,607 236,329 233,997	299,848 170,050 89,197 51,926	11,194 24,175	144,416 137,228 228,232 134,091	22,114 1,863 7,268	17,609 7,488 8,874 6,234 16,537
	Total		1,383,175	611,021	35,369	643,967	36,076	56,742
2	LOCAL MINES.  D. C. Brandt T. H. Wilkinson Nelson & Moran Wm. J. Masters A. M. Mapes.	Sheffield	2,458 1,895				2,108 1,895 200	350
	· Total		7,377				7,027	350
	Total—10 mines		1,390,552	611,021	35,369	643,967	43,103	57,092

Mines in 1916, 7. New mines, 3. Mines in 1917, 10.

### HENRY COUNTY,

LOCAL MINES.  1 Herman, Carlson & Johnson  2 Waterloo Coal Co  3 Grice, Jameson & Jackson  4 Hintz Bros  5 Stricker & Stuhlsatz  6 Arthur Ratellife  7 Peterson & Lami  8 Kewanec Co operative Coal Co.  9 North Main Coal Co.  0 Atkinson Brosl  0 Atkinson Brosl  2 James Endres  Total—12 mines.	.do	6,512 5,656 4,220 4,029 3,634 3,120 2,989 2,077 2,036 1,510 861		6,512 5,656 4,220 3,813 3,489 2,720 2,489 1,937 2,036 1,510 861	216 145 400 500 140
---	-----	---	--	---	---------------------------------

Mines reported in 1916, 13. New mines, 1. Abandoned mines, 2. Mines in 1917, 12.

### KNOX COUNTY,

2 3 4 5	LOCAL MINES.  Geo. & Chas. Horkstrom T. H. Milan Rodell & Mitchell Claude G. Bangstrom. W. H. Bowman & Co.	Wataga Yates City	6,400 3,650 2,900 2,600	 	 3,500 2,900 2,600	150
5		Yates City	2,600	 	2,600	

# SECOND DISTRICT, 1917.

ed for	ble ex-	Insp tic by	ns	ation.		Tons 1	nined.	number	Ac der	ci- its.	in use.	s under-		pc pc-	cial plant.	
Kegs of powder used for blasting.	Pounds of permissible explosives used.	State iuspector.	County inspector.	Days of active operation.	Total employees.	By hand.	By machine.	Mining machines— in use.	Killed.	Injured.	Number of motors	Number of animals ground.	Number in use.	Average daily capacity.	Tons prepared dur- ing the year.	Number.
	675	1 2 2 2 1		272 270 250 246 256	631 511 514 395 463	322,288 321 954 229,203 236,329 227,014	39,404 6,983		2	34 12 28 19	 3 2 2	62 86 83 59 82	1 1 1 1	1,000 1,000 1,000 300	35,489 21,516 23,097 30,533	3
	675	- 8		259	2,514	1,335,788	46,387	11	3	99	7	372	4	825	110,635	
		1 2 		280 265 300 60 24	9 7 3 2 2	2,800 2,458 1,895 200 24										
	675	3	_==	186	23	7,377 1,341,165	46,387	11	3	90	7	372	4	825	110.63	

# SECOND DISTRICT, 1917.

1											
-			1								
		282	13	9,307	 		 				
	2	225	10	6,512	 	 	 				
	2	313	10]	5,656	 	 	 				
245	1	285	10	4,220	 	 	 				
	2	216	9	4,029	 	 1	 				
	2	260	6	3,634	 	 	 	 	 		
	2	227	8	3,120		 	 	 			
	2	240	8	2,989	 	 	 	 	 		
	2	231	4	2.077							
	2	260 200	4	2,035							
	2	250	8	1,510 861	 	 	 	 	 		
	2	200	3	801	 	 	 	 	 		
245	21	249	93	45,951		1		1		_	_

# SECOND DISTRICT, 1917.

	20	00 5	13.000	 	 		
200 1	20	00 8	6.400	 		1	 
1	26	10 13	3.650				 
	19	90 4	2,900				 
150 2	2	10 5	2,600				 
200 1	20	00 5	2.130				 
			21100	 	 		 

					Dispos	sition of o	output.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
12 13 14 15 16 17 18 19 20	J. E. Walsh	Victoria Knoxville Victoriado Knoxville Victoria Williamsfield. Victoria	1,621 1,082 1,071 687 600 600 539 522 392 325 270 199 150 142 60				1,621 1,082 1,035 687 600 600 539 522 392 325 270 199 150 142 60	

Mines reported in 1916, 20. New mines, 4. Abandoned mines, 3. Mines for 1917, 21.

### MERCER COUNTY,

=								
	SHIPPING MINES.							
1	Alden Coal Co., No. 7.	Matherville	101,903					1,627 5,885
	Coal Valley Mining Co., No. 3 Coal Valley Mining Co., No. 2	Sherrard	98,209 37,180		458	21,159		4,182
1	Total		237,292	81,224	458	142,124	1,792	11,694
	LOCAL MINES.							
1	Hydraulic Press Brick Co W. P. Williams	Aledo					9,820 6,034	180
3	McCrame & Lee	Matherville Preemption	3,700				3,605 2,400	
5	B. B. Peterson	Cable	1,345				1,345 1,260	3
7	James Blaine	do	1,240				1,240	
9	John Taylor		203				195 60	8 15
10	Total						26,659	501
	Total—13 mines		264,452	81,224	458	142,124	28,451	12,195

Mines in 1916, 12. New mines, 3. Abandoned mines, 2. Mines in 1917. 13.

# SECOND DISTRICT, 1917—concluded.

101 P.	ble ex-	Insp tion	ns	ation.		Tons i	nined.	number	A c der	eci- nts.	in use.	under-		oal wash other spe eparing	ecial
Negs of powder used for blasting.	Pounds of permissible plotives used.	State inspector.	County inspector.	Days of aetive operation.	Total employees.	By hand,	By machine.	Mining machines— in use.	Killed.	Injured.	Number of motors	Number of animals ground.	Number in use.	Average daily capacity.	Tons prepared during the year
100		1		280 200 170	3 2 4	1,621 1,082 1,071				i					
90				150 300 120 150	3	687 600 600 539									
				120 130 160	2 2 3 3 4	522 392 325									
				100 150 90 160	2 1 3 5	270 199 150 142									
780		10		168	82	38,940				1					

# SECOND DISTRICT, 1917.

	3,130	1	 198	134	101,903 98,209	 	 2 3	2	20 17	 	
	3,130		 294	315	37,180 237,292	 	 6	2	43	 	
			 ==					==			
609 460 257		1	 275 180 145	13 7 11	10,000 6,031 3,700	 	 			 	
390 145 100		1	 150 130 220	12 5 7	2,600 1,345 1,23	 	 			 	
90 45 17		1	 155	5 4 1	1,240 700 203		 			 	
2,024		9	 25 148	66	75 27,160	 	 			 	
7,300	3,130		 172	381	264,452	 	 ==	2	43	 	

#### ROCK ISLAND COUNTY,

					Dispos	ition of o	utput.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to railroad companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
4 5 6 7 8 9	LOCAL MINES.  Pryce Coal Co. David Cooke. Barak Bros. & Kuhiman Frederick & Gramenz. Stochr & Schadt Sommerson & Slevers. J. L. Donahoo. Moline Coal Mining Co. Stone Bros. August Von Ach. Total—10 mines.	Carbon Cliff. Coal Valleydo Moline Carbon Cliff. Hampton	3,768 2,678 2,541 1,955 1,491 650 535				2,368 2,191 1,950 1,451 650	310 350 5 40

Mines reported in 1916, 12. New mines, 1. Abandoned mines, 3. Mines in 1917, 10.

### STARK COUNTY,

SHIPPING MINE.						
Higbee Coal Co., Big Hit	Wyoming	7,552	3,327	 	3,475	75
LOCAL MINES.				 		
Jesse Savill	Wyoming	4,008		 	4,008	
James Scott	do	2,120		 	2,080	
T. T. McDaniel	do	1,970		 	1,750	
Geo. D. Boardman	Toulon				1,600	
Alfred E. Catton					386	
W. J. Duncan					352 120	
Mike Beeman Robert Bros	Brodford					
John Thorneycroft					40	
Total		10,705		 	10,411	2
Total—10 mines		18.257	3.327	 	13.886	1.0

Mines in 1916, 10. New mines, 3. Abandoned mines, 3. Mines in 1917, 10.

### WARREN COUNTY,

2 Gillmore & Houstondo 2 2 674 2 2 674 4 480 4 2 674 4 2
--

# SECOND DISTRICT, 1917.

ole ex-	Inspec- tions by—	tilon.		Tons i	nined.	number	Ae	ei- its.	in use.	under-	C pi	oal wash other spe reparing	ers or ecial plant.
Pounds of permissible explosives used.	State inspector.	Days of active operation.	Total employees.	By hand.	By machine.	Mining machines—in use.	Killed.	Injured.	Number of motors i	Number of animals ground.	Number in use.	Average daily eapacity.	Tons prepared during the year.
800	2	1 200 1 120 1 246 225 1 267 1 30 - 78 - 70 1 150 - 200	35 4 10 7 16 9 7 5 4	17,000 7,109 3,768 2,678 2,541 1,955 1,491 650 535	20,000								

# SECOND DISTRICT, 1917.

302	 1		161	19	7,552	 							
	 	==	_				_	_	_	-	_		
150	 1		200	12	4,008	 							
125	 1		210	7	2,120								
985	 		125	7	1,970	 							
	 1		275	5	1,600								
110	 1		290	5	400	 							
3			86	3	352	 							1
10			90	4	120								
7	 1		60	3	75							1	
	 _		80	1	60	 							
	 		- 50			 							
,390	 6		157	47	10,705	 							
	 ==	_					-		_		-		
,692	 7		158	66	18,257	 							

# SECOND DISTRICT, 1917.

400 430 830	1	273 10 275 5 250 2 150 3 150 3 220 23	2,674 492 300 270						
-------------------	---	--	----------------------------	--	--	--	--	--	--

#### SHIPPING MINES, RECAPITULATION BY

					Dispos	ition of o	utput.		d for	ble ex-
Number.	Counties.	Number of mines.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locometives at the mines.	Tons sold to rail- road companies and loaded on cars.	Sold tolocal trade.	Consumed or wasted at the mine.	Kegs of powder used blasting.	Pounds of permissible plosives used.
2	Bureau Mercer Stark Total	5 3 1	1,383,175 237,292 7,552 1,628,019	611,021 81,224 3,327 695,572	35,369 458 35,827	142,124	36,076 1,792 3,475 41,343	750	15,276 302 15,578	

#### LOCAL MINES, RECAPITULATION BY

1 Bureau. 2 Henry 3 Knox 4 Mercer 5 Rock Island. 6 Stark. 7 Warren	12 21 10 10 10 9	27,160 57,727 10,705 7,941		7,027 43,800 37,424 26,659 54,677 10,411 7,929	1,516 501 3,050 294 12	1,390 830	
7 Warren	72	7,941		 7,929	7,874		

#### ALL MINES, RECAPITULATION BY

Whole number of mines reported for 1916, 80. Number of new and reopened mines during the year, 15. Number of mines abondoned during the year, 14. Whole number of mines reported for 1917, 81.

# COUNTIES, SECOND DISTRICT, 1917.

ation.		Tons r	nined.	es.	Accid	lents.		nd.	Coal washers or other special preparing plant.				
Days of active operation.	Total employees.	By hand.	By machine.	Number of machines.	Killed.	Injured.	Number of motors.	Animals underground.	Number in use.	Average dally capacity.	Tons prepared during the year.	Number.	
259 252 161	2,514 315 19	1,336,788 237,292 7,552	46,387	11	3	99	7 2	372 43	4	825	110,635	1 2 3	
245	2,848	1,581,632	46,387	11	3	105	9	415	4	825	110,635		

### COUNTIES, SECOND DISTRICT, 1917.

					1		I I		[	
186	23	7,377						 		
249	93 82	45,951				1		 		
168	82	38,940				1		 		
148	66	27,160						 		
168	99	37,727		1				 		
157	47	10,705						 		
200	23	7,941					1			
							-	 		
182	433	175,801	20,000	1		2		 		
189	3.281	1,757,433	66,387	12	3	107	0		i .	

### COUNTIES, SECOND DISTRICT, 1917.

				i		1				i
222	2,537	1,344,165	46,387	11	3	99	7	372	 	
249	93					1		43	 	
168	82	38,940				1			 	
172	381	264,452				6	2		 	
169	99	37,727	20,000	1					 	
158	66	18,257							 	
220	23	7.941							 	
		- 1,011							 	
190	3,281	1,757,433	66,387	12	3	107	9	415	 	
	-,	-,,	,		_					

### THIRD INSPECTION DISTRICT.

Counties—Marshall, Menard, Peoria, Purnam, Tazewell and Woodford. James Taylor, Inspector.

Hon. Evan D. John. Director, Department of Mines and Minerals, Springfield.

SIR: I have the honor to submit to you the annual report of this, the Third District, comprising the coal producing counties of Marshall, Menard, Peoria, Putnam, Tazewell and Woodford.

#### SUMMARY OF THE ITEMS IN THE REPORT.

Number of counties producing coal	õ
Number of shipping mines	4
Number of local mines	
Number of new or reopened mines	
Number of closed or abandoned mines	8
Number of men underground	5
Number of boys underground 9:	2
Number of men outside the mine	0
Number of boys outside the mine	2
Total number of employees	9
Total tons of coal produced	1
Days of active operation, all mines	3
Kegs of powder used for blasting coal	8
Number of fatal accidents.	6
Number of nonfatal accidents	0
Number of employees to each fatal accident	7.
Number of employees to each nonfatal accident 56	0
Tons of coal produced to each fatal accident 598,90'	7
Tons of coal produced to each nonfatal accident	4
Ratio of fatal accidents per 1.000 employees	1
The following table gives by counting the output the days worked one	a

The following table gives, by counties, the output, the days worked, and the number of men employed, 1917 and 1916, with the increase or decrease in each:

		1917		1	1916		Incr	De	erea	se.		
County.	Output-	Days worked.	Men em- ployed.	Output- tons.	Days worked.	Men em- pioyed.	Tons.	Days.	Men.	Tons.	Days.	Men.
Marshall Menard Peorla Putnam Tazewell Woodford Total and average. Net	472,690 197,283 1,553,455 712,535 455,880 201,598 3,593,441	120 215 174 262 229 275 178	989 242 1,700 1,177 519 332 4,959	437,960 163,190 1,319,551 648,802 310,082 185,083 3,064,668	112 170 183 206 179 213 ———————————————————————————————————	463	34,730 34,093 233,904 63,733 145,798 16,515 528,773 528,773	50 62	69		9	59 116 131 306 216

#### NEW MINES.

The new or reopened mines are as follows:

Marshall County.-Acme Coal Co. No. 3, Wm. Crew, Holmes, Tanner

and Hoagly, Ruben Colwell, Thomas Lopeman, Roy Crew, Sparland.

Peoria County.—Wm. Cook, Jr., James Schmidt, Geo. Snider & Son, Thomas Mohn, Hamman & Vicary, A. S. Pierce, James Stear, Peoria; Alvin E. Reed, Murphy and Wagner, Mapleton; Wyman & Savage, Brimfeld; John Doubert, James Cox, Hanna City; Barney Daley, Oak Hill; Harry Barr, Edwards.

Putnam County.—Urbandale Coal Co., Fred Seffer, East Peoria,

#### ABANDONED MINES.

The following are abandoned or temporarily closed: Nelson Hogley, Louis Neighsonger, Sparland, Marshall County.

Peter Becker, Tallula, Menard County.
Colvin Bros., Louis A. Schmidt, Seffer and Barnewelt, Thomas Jones & Son, Fisher & Blank, Peoria; C. E. Hays, Brimfield; Poutz & Spenny; Trivola; Henry Penn, M. H. Moody, Hanna City; C. E. Pratt & Son, Edwards Coal Co., Edwards, Peoria County.

Pekin Coal Co., Pekin; Eastern Coal Co., Harry Turner, Holby & Black-

burn, East Peoria, Tazewell County.

#### CHANGE OF NAME.

Geo. H. Chrisman & Son to F. G. Hadel & Son; Rube Colwell to Abe Colwell; Davis & Colwell to Miller & Olson; James Andrews to G. M. Aman, Jr.; Brewster & Evans Coal Co. to M. E. Case Coal Co.; Fair Oaks Coal Co. to Geo. Wantling; Clark & Martin to Clark & Murdock; Thos. Stears to Lemasters Bros.

#### FATAL ACCIDENTS.

August 9, 1916, John Berri, miner, age 20 years, single, was killed in mine No. 1, B. F. Berry Coal Company, Standard, Putnam County, by a fall of coal.

August 25, 1916, John Cantrall, miner, age 30 years, single, was killed by falling coal in the Athens Coal Company's mine, Athens, Menard County. The body of deceased was found at the mouth of his room. A piece of slate weighing approximately 500 pounds had fallen off the rib, crushing him about the head and body.

November 1, 1916, Charles Caravana, laborer, age 34 years, married, was killed by falling rock in St. Paul Coal Company's mine, Granville, Putnam

County. He leaves a widow and three children.

December 9, 1916, Andrew Litnick, machine helper, age 44 years, married, employed in the Tazewell Coal Company's mine, Pekin, Tazewell County, died from the effects of injuries received the previous day by being

caught in a mining machine.

March 27, 1917, G. E. Cokenour, trip rider, age 30 years, married, was killed by a fall of rock in Brewster & Evans Coal Company's mine, Peoria. Deceased was riding at the rear of a 25-car trip when the fall occurred. At the place where the accident happened the timbers supporting the roof were rotten and had been marked unsafe sometime previous by the mine examiner. He leaves a widow.

March 31, 1917, Chester Benn, miner, age 28 years, single, was killed by falling rock in Brewster & Evans Coal Company's mine, Peoria. Several days prior to the fall which killed this man the 12-inch pillowing slate had fallen and been cleaned up, so that the props were too short for this place.

Respectfully submitted.

JAMES TAYLOR, State Inspector of Mines, Peoria, Illinois.

# FATAL CASUALTIES, THIRD DISTRICT, JUNE 30, 1917.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
Nov. 1 Dec. 9	John Berri John Cantrall Charles Caravana Andrew Litnick G. E. Cokenour Chester Benn	30 34 44 30 28	.do. Laborer Machine helper. Trip rider Miner	Athens	1 1	1	1	3	1	Falling slate. Falling rock. Machine.

### RECAPITULATION OF FATAL ACCIDENTS, THIRD DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Athens. Granville. Pekin Peoria Standard Total	1 1 2 1 6	Laborer Machine helper Miners Trip rider	1 1 3 1	Falling coal Falling rock Falling slate Machine	3	Athens Coal Co B. F. Berry Coal Co Brewster & Evans Co St. Paul Coal Co Tazewell Coal Co	

# NONFATAL CASUALTIES, THIRD DISTRICT, JUNE 30, 1917.

Date.	Name.	Residence.	Married. Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
10 10 12 12 12 12 12 12 12 12 12 12 12 12 12	Domnick Peoletto.  Marcello Marcelli Dan Humphrey Delfi Beneletti Ilm Salvetti Pred Sattlemlar. Wim, J. Bolander Louis di Giusto. Sanandicko. Sanandic	4 Toluca 5 Wenona 4 Standard 9 Toluca 9 Toluca 10 Roanoke 10 Pekin 17 - do 11 - do 19 - do 11 - do 10 - do 10 - do 11 - do 10 - do 10 - do 11 - do 10		2 2 3 3 2 2 2 2 1 1 4 5	3 3 4 4 11 2 3 11 2 2 2 2	Leg injured, not stated. Body injured, lifting car. Hand broken, falling coal. Arm broken, falling coal. Toe injured, falling rock. Leg broken, pit car. Back injured, falling rock. Leg broken, pit car. Anklet injured, falling rock. Rock injured, falling rock. Foot injured, falling rock. Body injured, falling rock. Body injured, falling rock. Body injured, not stated. Back injured, falling state. Stepe injured, falling state. Stouder injured, falling coal. Leg injured, falling coal. Leg injured, falling coal. Leg injured, falling coal. Back injured, iffing state. Ey d ljured, falling coal. Body injured, iffing weight.	61 34 36 50 48 34 41 45 46 54 114 32 71 44 51 52 31

# NONFATAL CASUALTIES, THIRD DISTRICT, JUNE 30, 1917—continued.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents	Character of injury and cause of accident.	Tlme lost-
1916									
Nov. 1	Basiglio Ferrairi. Sam Lettsome Angelo Pasta Anton Manni. Mike Valinski. Barney Dicenzo. A. Gualandi. John Migliaini Jim Coffina. Barney Mansini. Frank Mucelanti. James Claney. Joe Koman. Dom Bulla. Edward Hurley.	22	Standard	.:	1			Finger broken, falling rock	١.
1	Sam Lettsome	25	do	1	٠.	2	3	Leg broken, pit car	1
3	Angelo Pasta	42	Cropville	1	• •	4	5	Rody injured folling gool	1
4	Miko Volinski	30	do do	1	• •		1.	Finger broken, cage Body injured, falling coal. Leg injured, pit car Leg injured, falling rock Hand injured, falling coal. Finger injured (falling coal)	
é	Borney Dicenzo	30	do	1	i		1	Leg injured, falling rock	
9	A. Gualandi	21	do		î			Hand injured, falling coal	
17	John Migliaini	41	do	i			1	Finger injured, falling rock	
18	Jim Coffina	33	Toluca	1		1	2	Back injured, pushing car	١.
22	Barney Mansini	40	Pekin	1	٠.	2	3	Head injured, falling props Back injured, lifting rock	1
23	Frank Muceianti	22	Toluca		1			Back injured, litting rock	
27	James Clancy	17	Pottstown	1	1			Finger injured, pit car Rib broken, falling coal Toe injured, falling rock Collar bone broken, squeezed by	
Dec. 1	Dom Bulle	20	Poonoko	1	1	9	1	Too injured folling rock	
5	Edward Hurley	13	Standard	i	1	5	2	Collar hone broken squeezed by	
								mule	
7	Angelo Dario Pete McEwan Battista Tolotti Mike Baran Jas. Sluter Pete Goneyzos Dominic Cicci	21	Toluca		1				
8	Pete McEwan	33	Granville	1		3	4	Finger injured, failing rock Ribs broken, not stated Finger injured, falling coal. Leg injured, falling rock Back injured, falling coal. Body injured, falling rock Foot injured, caught between ties Leg broken, falling slate.	1
. 8	Battista Tolotti	50	Toluca	1		2	3	Finger injured, falling coal	
14	Mike Baran	40	do	Į į		2	3	Leg injured, falling rock	1
10	Poto Gonovace	28	Ptondord	1	1	1	2	Poder injured, falling coal	1
18	Dominic Cicci	41	Toluca	i	1	····i		Foot injured, caught between ties	
20	Anthony, Bosso	17	Athens	ļ	i			Leg broken, falling slate	
								Hand injured, falling rock	
1917	John Lidell Mariano Basili Steve Boldini Angelo Dezardo Philip Vardarene Jno. Catani Andrew Melchis Philip Debona Anton Fassino George Vovak Louis Colvin Dom Donati Lazzaio Cavatorto Max Wagner Arthur Fancon Battista Salvetti Carlo Sudatore John B. Mignine Wm. Adams. J. H. Gallagher. Battista Milani	١.		١.					
an. 9	John Lidell	35	Granville	1		2	3	Ribs broken, falling rock	
13	Mariano Basili	30	Toluca	1		4	5	Wrist injured, falling rock	
15	Angele Dezerde	44	Standard	1	.:	2	3	Rody injured loading coal	
17	Phillip Vardarene	21	Toluce	'i	1	····i		Back injured lifting rock	
22	Ino Catani	47	Standard	î		5	6	Wrist injured, falling rock.  Body injured, falling timber.  Body injured, loading coal.  Back injured, lifting rock.  Body injured, lifting coal.	
23	Andrew Melchis	43	Athens		i			Body burned, powder explosion Body injured, lifting coal	1
24	Phillip Debona	49	Toluca	1		3	4	Body injured, lifting coal	
31	Anton Fassino	38	Standard	1		5			
Feb. 4	George Voyak	66	Wenona		1			Body injured, fell in sump Back injured, falling coal	1
6	Louis Colvin	56	Peoria	1	1:	1			
9	Lezzaio Cavatorto	97	Standard	· ;	1	· · · i		Arm injured, falling rock Leg broken, falling rock Leg broken, plit car. Arm broken, not stated Back injured, lifting car Body injured, throwing coal. Back injured, falling rock	
11	Max Wagner	25	Peoria	1	Ϊi		-	Leg broken, pit car	
17	Arthur Fancon	-	Roanoke	i		2	3	Arm broken, not stated	
19	Battista Salvetti	25	Toluca	1			1	Back injured, lifting car	1
19	Carlo Sudatore	49	do	1	١	1	2	Body injured, throwing coal	
21	John B. Mignine	28	Granville	1		4	5	Back injured, falling rock	
24	wm. Adams	50	Peoria	1		5	8	Foot injured, falling coal	
20	Bettiete Mileni	49	do.	1 1	· ·	1	5	Body injured fell off car	
28	Paul Broenka	47	Granville	li		4	1	Foot injured, failing coal Body injured, falling coal Body injured, fell off car Back injured, falling rock Leg injured, falling coal Leg broken, falling coal Back injured, pushing car. Finger broken, falling coal	١.
Mar. 8	Louis Bedonni	28	do	1.	1			Leg injured, falling coal	ľ
12	Anton Lodi	38	Pekin	1		1	2	Leg broken, falling coal	1:
· 14	Gian Lewis	39	Toluca		1			Back injured, pushing car	1
14	A. Belisi	23	Granville		1				
15	G. Custini	38	do	1			1	Finger cut off, plt car. Back injured, falling rock Leg injured, fell	
20	Martin Novak	30	Tolygo	1			1 2	Log injured, fall	
28	L. Fillipini	30	Granville	1		1 4	1	Finger broken, not stated	
pr. 12	Vincenzo Frescaroli	41	Standard	1		4	5	Foot injured, falling rock	
17	Everett Van Pelt	19	Peoria		1			Leg broken, pit car	
19	John Riva	33	Standard	1		4	5	Leg broken, pit car Body injured, lifting coal	
20	Jacob Novah	40	Granville	1			1	(IO)	
21	Mario Salina	48	Ctondord	1		;	1	Toe injured, falling rock	
21	Anton Calrus	36	Standard	1		4	5	Body injured, lifting coal Back injured, falling rock Toe injured, not stated Leg injured, pushing car	
May 28	Lester Randle	10	Pottstown	1	1	8	9	Toe injured not stated	
ay 2	Paolo Colla	45	Toluca	1	1	7	5	Leg injured, pushing car	
10	Steve Rodelich.	55	Granville	1.	1			Hand injured, latting rock	
11	Wm. Adams. J. H. Gallagher. Battista Milani. Paul Broenka Gian Lewis. A. Belisi. G. Custini Martin Novak Mike Santi. L. Fillipini Lurin Forester of the Control of the Control Everett Van Pelt John Rivan. John Calirus. Anton Salamone Lester Randle Paolo Colla Steve Rodelich Alberto Grossi Joe Orson.	28	do		I			Leg injured, falling coal	
11	Anton Bosio	45	Toluca	1		10	6	Leg injured, falling coal Foot injured, falling rock	
					1 1			do	à.

# NONFATAL CASUALTIES, THIRD DISTRICT, JUNE 30, 1917—concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—
19 21 22 28 30 June	Anselmo Bernardi) John Marvonitz John Zenoni John Lafuch John Lafuch Jiau Riva Anton del Grossi Emiro Bernardi Veghi Celso Total	48 35 28 44 49 41 38	Wenona Toluca Granville Standard Toluca do Standard	1 1 1 1 1 1 1 1		3 2 2 3 7 6 3	3 4 3 4 4	Body injured, lifting rock.  Ankle injured, falling rock.  Leg injured, loading rock.  Back injured, loading rock body injured, lifting coal  Back injured, falling rock.  Leg injured, falling coal.  Shoulder injured, falling coal.	49 38 33 37 48 34 42 *
Numbe Numbe	ot returned to work. er injured r not returned to work mber returned.		4		T	ime l vera	lost t	oy men returned, days	2, 28 4, 46

# RECAPITULATION OF NONFATAL ACCIDENTS, THIRD DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Athens. Granville Pekin. Peoria Poutstown. Roanoke Standard Toluca. Wenona.	24 3 8 2 4 17	Cagers. Drivers. Laborers. Miners. Motorman. Timberman. Trackman.	2 10 10 75 1 1 1	Cage. Caught between objects. Falling coal. Falling rock. Falling rock. Falling state. Falling state. Falling timber. Fell. Flying coal. Flying sulphur. Lifting objects. Pit cars. Powder explosion. Pushing car Not stated.	3 19 30 3 2 3 2 3	Athens-Dawson C. Co. B. F. Berry Coal Co. M. E. Case Coal Co. Crescent Coal Co. Crescent Coal Co. Crescent Coal Co. St. Paul Coal Co. St. Paul Coal Co. Trazewell Coal Co. Toluca Coal Co. Wolschlag Co-operative Coal Co.	17 2 6 4 24 2 35 5
Total	100		100		100		100

RECAPITULATION OF NONFATAL CASUALTIES, NATURE OF INJURIES, CON-JUGAL RELATIONS, AND TIME LOST, THIRD DISTRICT, JUNE 30, 1917.

	i.	·		n.	lents.	Time los	t—days.	age iries.
Nature of injuries.	Number	Married	Single.	Children	Dependents.	Total.	Aver- ago.	Percentage ofinjuries.
Ankle injured Arm broken Arm broken Arm injured 3aek injured 3aek injured 3ody burned 3ody burned 3ody burned 3ody injured¹  3ody injured¹  5pe injured Finger broken Finger ent off Finger injured Foot injured Hand broken Hand injured Lead injured Leaf proken Lee injured Rib broken² Rib broken² Houlder Rib broken² Houlder Foot injured Rib broken² Houlder Foot injured	2 2 1 16 1 19 1 3 5 1 4 7 7 1 1 3 2 7 7 14 3 3 4 4 7 1 1 4 4 1 1 1 4 4 3 1 4 4 4 3 1 4 4 4 4	1 2 13 13 1 2 2 6 6	1 3 1 6 6 3 2 1 1 3 3 4 7 3	3 4 23 41 5 7 4 2 25 25 	4 6 6 30 49 2 10 6 1 4 4 23 5 7 723 8 11 1 5	72 941 39 813 150 943 36 121 39 188 319 36 169 247 674 101 180 80 167 33	35, 00 47, 00 30, 00 50, \$1 150, 00 55, 47 36, 00 40, 33 74, 20 37, 00 47, 00 45, 57 36, 00 47, 00 40, 00 41, 70 41, 7	2. 0 2. 0 1. 0 1. 0 1. 0 1. 0 1. 0 3. 0 5. 0 1. 0 4. 0 7. 0 2. 0 2. 0 3. 0 3. 0 4. 0 7. 0 4. 0 7. 0 4. 0 7. 0 4. 0 7. 0 4. 0 7. 0 8. 0 8. 0 8. 0 8. 0 8. 0 8. 0 8. 0 8
Total	100	64	36	170	195	5,228	54, 46	100.0

Two not returned to work.
One not returned to work.

	-			Dispos	ition of o	utput.	
Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
SHIPPING MINES.		·					
Foluca Coal Co., No. 1 Wenona Coal Co., No. 1. Acme Coal Co., No. 3.	Toluca Wenona Sparland	281,638 170,925 13,621	147,457		168,973 3,100	8,301 11,190 121	12,176 12,278
Total		466,184	175,856	74,189	172,073	19,612	24,454
LOCAL MINES.							
John H. Pearson	Henry Sparland	1,565 1,500 338				1,565 1,500 318	20
Holmes, Tanner & Hogley Miller & Olson	dodo	280 210 208				280 200 208	10
ames rogarty. Phomas Lopeman. Roy Crew. Abe Colwell	dododododo	100 90 50 40				100 90 50 40	
Total		6,506				6,476	30
Total—15 mines		472,690	175,856	74,189	172,073	26,088	24,484
EFF	SHIPPING MINES.  Coluca Coal Co., No. 1.  Venona Coal Co., No. 1.  Lorene Coal Co., No. 3.  Total.  LOCAL MINES.  F. G. Hadel & Sons.  ohn H. Pearson.  L. H. Ingram  Ym. Crew.  L. W. Dayls.  Columes, Panner & Hogley.  Lubon Colomes, Canner & Hogley.  Lubon Colomes	Name of operator. address of the mine.  SHIPPING MINES. Coluca Coal Co., No. 1. Venona Coal Co., No. 1. Wenona. Total. Venona Coal Co., No. 3. Sparland.  LOCAL MINES. C. G. Hadel & Sons. Sparland. Ohn H. Pearson. Henry. L. H. Ingram. Sparland. Vm. Crew. Leo. W. Davis do	SHIPPING MINES.   SHIPPING MINES.   SHIPPING MINES.   Column Coal Co., No. 1	Name of operator.   address of the mine.	Name of operator.   Postoffice address of the mine.   Postoffice address	Name of operator.   Postoffice address of the mine.   Postoffice address	SHIPPING MINES.   Coluca Coal Co., No. 1.   Toluca

Mines in 1916, 11. New mines, 6. Abandoned mines, 2. Mines in 1917, 15.

### MENARD COUNTY,

1	SHIPPING MINES.  Athen-Dawson Coal Co., No. 1  LOCAL MINES.  South Mountain Coal Co	Petersburg				7,688	975
3 4 5 6 7	Johnson Valley Coal Co. John W. Mallergreen, Jr. John Mallergreen, Sr. Galloday Bros. East View Coal Co. Brand & Walker John P. Grosball	Petersburg do Tallula Greenview Petersburg	6,332 6,000 5,650 5,120 2,000			5,120 1,900	1,803 260
	Total Total—9 mines		41,405 197,283	99,547	 	38,187	3,218 6,329

Mines reported in 1916, 10. Abandoned mines, 1. Mines in 1917, 9.

THIRD DISTRICT, 1917.

Part   Part	d for	ble ex-	tic	pec- ons	ation		Tons	mined.	-number	de	eci- nts.	in use.	under-	P	oal wash other sp reparing	ers or eciai plant.	
988	Kegs of powder used for blasting.	Pounds of permissible explosives used.	State inspector.	County inspector.	Days of active operation	Total employees.	By hand.	By machine.		Killed.	Injured.	Number of motors i	Number of animals under- ground.	Number in use.	Average daily capacity.	Toos prepared during the year.	Missonshow
100			1 2	5 6	292	292	170,925				35 5		24				
80     1     108     3     1,565       50     3     200     6     1,500       20     1     140     2     338       15     3     90     3     335       10     1     2     100     2     280       15     1     70     2     210       18     2     100     2     208       2     40     1     100       8     2     40     2     90       2     1     12     2     50       3     2     21     2     40	988	1,467	3		241	958	465,567	617	1		40	5	66				
323 1 20 90 31 6,506	80 50 20 15 10 15			1 3 1 3 2 1 2	108 200 140 90 100 70 100 40 40	4 3 6 2 2 2 2 1 2 2 2 2	1,565 1,500 338 335 280 210 208 100 90										1 1 1 1 1
	323		1	20	90	31	6,506										

# THIRD DISTRICT, 1917.

,735	25	2	_ 3	247	157	155,878	 	_ 1	2		17		 	 
468		1	1	210	15	8,663	 						 	 
110			1	230	15	6,720	 						 	 
397		1	1	250	11	6,332	 						 	 
360		1		3.00	17	6,000	 						 - 1	
260			1	180	8	5,650	 							
200				240	8 9	5,120								
80			1	180	6	2,000	 				ł .			
			1	100	4	920	 						 	 
							 			_			 _	 
,875		3	6	211	85	41,405	 						 	 
		_	===	-			 -	_		_		_	 _	 _
.610	25	5	9	215	242	197,283	 	1	2		17			 

_						PEUR	IA CO	UNII,
					Dispos	ition of o	ıtput.	
Number.	Name of operator.	Postoffice address of the mine.	Fotal output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
Nur			Tota	Ton	Ton	Ton ros an	Ton	Ton
	SHIPPING MINES.							
1 2	Wolschlag Co-oper, C. Co. Clark C. & C. Co., No. 2. M. E. Case Coal Co., B. & E. Crescent Coal Co., No. 1. Logan Coal Co. Newsom Bros. Warsaw Coal Co. Collier Co-op. C. Co., No. 1. Mapleton Coal Co. German Coal Co. Lancaster Ldg, C. & Trans. Co. No. 1	Peoria	273,315 232,594 221,254 158,340	273,315 160,094		65,300		7,200
4 5	Crescent Coal Co., No. 1	do	158,340	126,803		31,537		
6 7	Newsom Bros. Warsaw Coal Co.	Glasford Edwards	118,466 110,587 94,256 61,314	92,518 57,344		31,537 53,600 14,560 35,133	1,585	2,400 1,924 1,779
9	Mapleton Coal Co.	Mapleton	28,454 27,619	20,000 27,169		8,000	200 450	935 254
11	No. 1	Kingston M	26,122	25,522			600	,
	Total		1,352,321	1,126,864		208,130	2,835	14,492
	LOCAL MINES.						400	
2	Winters Coal Co.	Princeville Bartonville	37,862 23,654				37,100 23,654	762
3 4 5	Frank P. Schmidt & Son	Peoria Princeville Peoria	19,549 13,080				37,100 23,654 18,819 13,006	730 74
6	R. Taylor & Sons. Winters Coal Co. Treasure Coal Co. Frank P. Schmidt & Son. Ernest Colwell Martin Coal Co. Mohn Coal Co. Hibbard & Suedden Coal Co. E. Potter & Son	Peoria	9,972				8,820 9,500	1,152
8 9	Hibbard & Snedden Coal Co	do	9,134				8,654 8,820 8,521	500 200
10	E. Potter & Son	Mapleton Chillicothe	7,328				7,328 100	7,140
12	Wm. Cook, Jr.	Peoriadodo	6,801				6,525 6,260	276
14	Collears Bros	.do Elmwood	4,120				4,100	20 700
16	James Schmidt	Peoria	2,985				2,800 2,807 1,800	178
18	E. Potter & Son. Thomas Short. Limestone Coal Co. Wm. Cook, Jr. Pleasant Heights Coal Co. Collears Bros. MeK inley Coal Co. James Schmidt. Geo. Snider & Son. Umholtz & Johnson. Harry Bramer.	do	1,800				1,800 1,724	
20 21	George M. Aman, Jr Thomas Mohn	Edwards Peoria	1,494 1,477				1,494	
22 23	George Wantling	do Edwards	1,400 1,250				1,400 1,250	
24 25	Hammann & Vicory R. C. Crew.	Peoria .do Laura	1,100 948				1,100	
26 27	J. W. Miller Alvia E. Reed	Mapleton Hanna City					916 880	
28 29	Harry J. Green Fred Snider	Hanna City Oak hill	850 750				850 750	
30 31	Wm. Pool Lorenzo Clarkson	Edwards Monica	729 641				641	
32	R. J. Scott	Brimfield Oak Hill	520 513				513	
34 35	Fusser Bros	Brimfield Hanna City	425				425	
36	Frank Harlin	Chillicothe	350 250				_ 350	
39	Fred Martin	Brimfield Peoria Hanna City	250 250				250 225	
41	A. S. Pierce	Peoria Edwards	225 107				225	
43	Jayne, Murphy & Wagner	Mapleton	160				150 150	10
45 46	Geo. Snider & Son. Umholtz & Johnson. Harry Bramer. George M. Aman, Jr. Thomas Mohn. George M. Aman, Jr. Thomas Mohn. George Wantling. Clarkson & Henning. H. W. Miller. A. L. Grow & Vicory. J. W. Miller. A. Wis E. Reed. Harry J. Green. Fred Snider. Wm. Pool. Lorenzo Clarkson. Birt Tucker. R. J. Scott. Ed. Slone. Frusser Bros. Albert Warner. Frank Harlin. Frank Harlin. John Doubert. A. S. Pierce. Wm. Cramer. Jayne, Murphy & Wagner. Lemasters Bros. Barney Daley. Clark & Murdock.	Oak Hill Brimfield	89 60				89	
		1	1	I	1			

THIRD DISTRICT, 1917.

-		-														=
dfor	ple ex-	Insp tio by	ns	ation.		Tons n	nined.	aumber	Ae der	ci- its.	in use.	under-	C pr	oal wash other spe eparing	ers or eial olant.	
Kegs of powder used for blasting.	Pounds of permissible explosives used.	State inspector.	County inspector.	Days of active operation.	Total employees.	By hand.	By machine.	Mining machines—number in use.	Killed.	Injured.	Number of motors in use.	Number of animals under- ground.	Number in use.	A verage daily capacity.	Tons prepared during the year.	Number.
																_
19,054 15,897 18,512 10,347 1,952 6,181 6,896 4,315 1,766 339		2 2 3 2 2 2 2 2 1 3 4	1 2 1 2 2 2 2 1 2 2 2 2 2 2 2 2	298 276 283 257 263 260 248 256 188 228	180 269 226 215 132 110 104 42 48 30	273,315 232,594 221,254 149,174 110,587 94,256 61,314 28,454	9,166 118,466 27,619			3 2 6	5 2	8 15 11 14 7 13 7 2 5 3				1
1,632		3	2	218	48	26,122						5				1
67,837		26	22	252	1,404	1,197,070	155,251	13	2	11	17	90				
254 1,189 572 798 1,000 100 63 130 65 18 200 82 223 177 120 100 100 102 140 122 140 163 80 63		1 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200	18 10 5 8 6 4 4 4 4 3 3 12 3 3 3 2 3	9,020 8,521 7,328 7,240 6,801 6,260 4,120 3,500 2,985 1,800 1,724 1,494 1,477 1,400 1,250 1,100 948 916	19,545									
20 40 20 13 49 48		1 1 1 1	3 1 1 2 2	100 150 150 150 200 220 100 100		880 850 750										4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
30 20 23 30	3 5	1		230 210 40 40 50 50 45 75	1 3 2 2 1 1 2 4	425 400 350 350 250 225 225 197 160										
	5	1	1	35 12 27 25	1 2	150 89 60										1

PEORIA COUNTY,

					Dispos	ition of o	utput.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on ears for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to railroad companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
48 Hari 49 Jam	es Stear ry Barr es Cox.	Peoria Edwards Hanna City	50 40 25 201,134				50 40 25 189,092	12,042
	Total—60 mines		1,553,455			208,130		26,534

Mines reported in 1916, 57. New mines, 14. Abandoned mines, 11. Mines in 1917, 60.

#### PUTNAM COUNTY,

	SHIPPING MINES.							
18	st. Paul Coal Co., No. 1 3. F. Berry Coal Co., No. 1	Granville	427,562 284,973	406,437 134,336	3,340	127,033	4,540 11,150	13,245 12,454
	Total—2 mines		712,535	540,773		127,033		
				, , , , ,	-,		'	· '

Mines in 1916, 2. Mines in 1917, 2.

### TAZEWELL COUNTY,

	ī	1	ı	1	1	1	
SHIPPING MINES.							
Groveland Mining Co., No. 1.	Peoria	217,491	217,491				
Tazewell Coal Co	Pekin		97,143		38,934	6,147	
Ubben Coal Co., Ubben	Pooria		10,000				
Urbandale Coal Co	E. Peoria		8,000				
Total		430,340	343,954		38,934	41,849	5,603
LOCAL MINES.							
		12,800				12,500	
David Grant & Co	Pekin	11,600					350
Giebenhausen Coal Co	do	500				400	100
Total		25,540				24.790	750
Total—9 mines		455,880	343,954		38,934	66,639	6,353
	Groveland Mining Co., No. 1. Tazewell Coal Co. Ubben Coal Co., Ubben. Lake Frie Coal & Mining Co. Urbandale Coal Co.  Total.  LOCAL MINES.  Manhattan Coal Co. David Grant & Co. Fred Seffer. Giebenhausen Coal Co.	Groveland Mining Co., No. 1. Peoria. Tazewell Coal Co. Ubben Coal Co., Ubben. Lake Eric Coal & Mining Co. Urbandale Coal Co.  Total  LOCAL MINES.  Manhattan Coal Co. David Grant & Co. Pekin.	Groveland Mining Co., No. 1.   Peoria   217,491   Tazewell Coal Co.   Dekin   146,627   Ubben Coal Co.   Devoia   27,883   E. Peoria   9,333   Total   430,340   LOCAL MINES.   LOCAL MINES.   LOCAL MINES   LOCAL MINES   LOCAL MINES   LOCAL MINES   LOCAL MINES   Pebin   11,600   Pred Seffer   E. Peoria   640   Giebenhausen Coal Co.   do   500   Total   25,540   E. Peoria   25,540	Groveland Mining Co., No. 1.   Peoria.   217,491   217,491   Tazewell Coal Co.   Pekin   146,627   97,143   Ubben Coal Co., Ubben.   do.   29,000   10,000   Lake Erie Coal & Mining Co.   Peoria.   27,883   11,320   Urbandale Coal Co.   E. Peoria.   9,339   8,000   Total.   430,340   343,954   LOCAL MINES.   Manhattan Coal Co.   E. Peoria.   12,800   David Grant & Co.   Pekin   11,600   Fred Seffer C.   E. Peoria.   640   600   600   600   600   Co.   Co.	Groveland Mining Co., No. 1.   Peoria.   217, 491   217, 491   Tazewell Coal Co.   Pekin   146, 827   97, 143   Ubben Coal Co., Ubben.   do.   29,000   10,000   Lake Eric Coal & Mining Co.   Peoria.   27,883   11,320   Urbandale Coal Co.   E. Peoria.   9,339   8,000     Total.   430,340   343,954   LOCAL MINES.	Groveland Mining Co., No. 1.   Peoria.   217, 491   217, 491   Tazewell Coal Co.   Pekin   146,627   97,143   38,934   Ubben Coal Co., Ubben .   do.   29,000   10,000   Lake Eric Coal & Mining Co.   Peoria.   27,883   11,320   Urbandale Coal Co.   E. Peoria.   9,339   8,000   .     430,340   343,954   38,934   LOCAL MINES.     430,340   343,954   38,934   LOCAL MINES.   Manhattan Coal Co.   Pekin   11,600   Pekin   11,600   Fred Seffer .   E. Peoria   640   Giebenhausen Coal Co.   do.   500   .     Total   25,540   .	Groveland Mining Co., No. 1.   Peoria   217, 491   217, 491   17   248

Mines in 1916, 11. New mines, 2. Abandeoned mines, 4. Mines in 1917, 9.

### WOODFORD COUNTY,

SHIPPING MINES.						_
1 Roanoke Coal Co	132,811 68,787	34,974 55,937	9,795	71,633	8,879 9,450	7,530 3,400
Total—2 mines	 201,598	90,911	9,795	71,633	'	10,930

Mines in 1916, 2. Mines in 1917, 2.

THIRD DISTRICT, 1917—concluded.

d for	ble ex-	tic	pec- ons	operation.		Tons	mined.	number		eci- ats.	in use.	under-		oal wash other spe reparing	ecial	
Kegs of powder used for blasting.	Pounds of permissible plosives used.	State inspector.	County inspector.	Days of active oper	Total employees.	By hand.	By machine.	Mining machines—in uso.	Killed.	Injured.	Number of motors	Number of animals ground.	Number in use.	Average daily capicity.	Tons prepared during the year.	Number.
8,396 76,233		1 1 22 48	39	50 100 30 156 174	$ \begin{array}{r} 2 \\ 1 \\ 2 \\ \hline 296 \\ \hline 1,700 \end{array} $	50 40 25 181,585 1,378,655		14			17	87				47 48 49

# THIRD DISTRICT, 1917.

20	 1 1	270 253	721 456	427,562 284,973	 	1 1	24 17	 85 65	 	 1 2
20	 2	262	1,177	712,535	 	2	41	 140	 	

# THIRD DISTRICT, 1917.

	2 2 1 1 2 0 1 0 8	5 5 4 4 3 21	286 275 278 285 167 258	201 172 51 37 22 483	184,868 2,000 27,883 9,339 224,090	146,627 27,000			2	3 2	14 11 6 3 		1 2 3 4 5
666 665 32 31 1,394 13,934	2 1 1 4 0 12	3 3 2 8 ===============================	295 230 145 100 193	14 16 2 4 36 519	12,800 11,600 640 500 25,540 249,630		18	1		5	34		1 2 3 4

## THIRD DISTRICT, 1917.

					21					Dr.			
	 . 500	2	3	295	223	130,394	2,417	1	 4		38	 	 1
500 E 9 975 999 100 101 9 417 1	 	3	5	254	109	68,787			 		16	 	 2
300 3 5 213 332 133,131 2,417 1 4 4 34	 . 500	5	8	275	332	199,181	2,417	1	 4		, 54	 	

#### SHIPPING MINES, RECAPITULATION BY

					Disposi	tion of ou	itput.		d for	ple ex-
Number.	Counties.	Number of mines.	Total output.	Tons loaded on cars for ship-ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Sold to local trade.	Consumed or wasted at the mine.	Kegs of powder used blasting.	Pounds of permissible explosives used.
2 3 4 5	Marshall Menard Peoria Putnam Tazewell Woodford Total	3 1 11 2 5 2 24		343,954 90,911	3,340	46,950 208,130 127,033 38,934 71,633	19,612 6,270 2,835 15,690 41,849 18,329	14,492 25,699 5,603 10,930	988 7,735 67,837 20 12,540 89,120	500

#### LOCAL MINES, RECAPITULATION BY

_					 				
3	Marshall Menard Peoria Tazewell		41,405 201,134		 	6,476 38,187 189,092 24,790	3,218 12,042	323 1,875 8,396 1,394	
	TotalThe district	73		2,377,905	 			11,988	

### ALL MINES, RECAPITULATION BY

-	1	1								
1	Marshall	15	472,690	175,856	74.189	172,073	26,088	24,484	1.311	1,467
	Menard	9	197,283							
3	Peoria	60	1,553,455							
4	Putnam	2	712,535							
	Tazewell	9	455,880			38,934				
6	Woodford	2	201,598	90,911	9,795	71,633	18,329	10,930		500
	Total	97	3,593,441	9 977 005	07 204	664,753	202 120	100 200	101 100	2 042
	I Otal	97	5,595,441	2,377,903	81,324	004,700	303,130	100,529	101,108	2,042

Whole number of mines reported for 1916, 93. Number of new and reopened mines  $d \propto 1ng$  the year, 22. Number of mines abandoned during the year, 18. Whole number of mines reported for 1917, 97.

# COUNTIES, THIRD DISTRICT, 1917.

ation.		Tons t	nined.	S.	Accid	lents.		nd.	Coal w	vashers o cial prepa plant.	r other iring
Days of active operation.		By hand.	By machine.	Number of machines.	Killed.	Injured.	Number of motors.	Animals underground	Number in use.	A vorage dally capacity.	Tons prepared during the year.
241 247 252 262 258 275 255	958 157 1,404 1,177 483 332 4,511	465,567 155,878 1,197,070 712,535 224,090 199,181 2,954,321	617 155,251 206,250 2,417 364,535	13 13 18 1	1 2 2 2 1	40 22 11 41 2 4 100	5 17 5 	66 17 90 140 34 38 385			

# COUNTIES, THIRD DISTRICT, 1917.

90 211 156 193	31 85 296 36	6,506 41,405 181,585 25,540 255,036	19,549	1 1						
178	4,959	3,209,357	384,084	34	6	100	27	·····	 	

### COUNTIES, THIRD DISTRICT, 1917.

120 215 174	989 242 1,700	1,378,655	174,800	1	1	40 2 11	5 17	66 17 90	 	
262 229 275	1,177 519 332	712,535 249,630 199,181		18 1	1	41 2 4	5	140 35 38	 	
178	4,959	3,209,357	384,084	34	6	100	27	385	 	

### FOURTH INSPECTION DISTRICT.

Counties—Cass, Fulton, Hancock, McDonough, Morgan, Schuyler and Scott. David Z. Thrush, Inspector.

Hon. Evan D. John, Director, Department of Mines and Minerals, Springfield.

SIB: I have the honor to submit to you the annual report of this, the Fourth District, comprising the coal producing counties of Cass, Fulton, Hancock, McDonough, Morgan, Schuyler and Scott.

#### SUMMARY OF THE ITEMS IN THE REPORT.

North and the section of the section
Number of counties producing coal
Number of shipping mines
Number of local mines
Number of new or reopened mines
Number of new of reopened mines
Number of closed or abandoned mines
Number of men underground
Number of boys underground
Number of men outside the mine
Number of boys outside the mine
Total number of employees
Total tons of coal produced
Days of active operation, all mines
Kegs of powder used for blasting coal
Number of fatal accidents
Number of nonfatal accidents
Number of employees to each fatal accident
Tons of coal produced to each fatal accident 930,117
Tons of coal produced to each nonfatal accident
Ratio of fatal accidents per 1,000 employees
The following table gives, by counties, the output, the days worked and

The following table gives, by counties, the output, the days worked and the number of men employed, 1917 and 1916, with the increase or decrease in each:

	1	917		1	.916		Incr	ease.		De	creas	e.
County.	Output-	Days worked.	Men em- ployed.	Output—	Days worked.	Men em- ployed.	Tons.	Days.	Men.	Tons.	Days.	Men.
Cass Fulton Hancock McDonough Morgan Schuyler Scott	1,500 2,739,185 3,965 17,603 1,000 24,154 2,940	210 167 200 119 206 155 134	3,208 8 111 6 88 18	1,200 2,036,781 4,160 21,831 1,535 16,596 4,657	160 255 116 188 124 147	3,049 18 125 7 - 85 24		3 18	159 	4,225 535 1,717	13	14 1 6
Total and average Net	2,790,350		3,442	2,086,760	145	3,311	710,262 703,590	7	162 131	6,672	::::	31

#### NEW AND ABANDONED MINES.

The Norris Coal Mining Company's mine at Norris, which has been closed for some time, has been reopened under the name of Genuine Norris Coal Mining Company. Forty-three other mines, all in local trade, have been put in operation and sixty-seven permanently abandoned or temporarily closed during the year.

#### FATAL ACCIDENTS.

September 6, 1916, Thomas Martin, driver, age 39 years, married, was killed in Simmons Coal Company's mine, Canton, Fulton County, by pit cars. He leaves a widow and four children, two of whom are dependents.

February 6, 1917, William A. Sietz, miner, age 39 years, married, employed in the mine of the Genuine Norris Coal Mining Company, Norris Fulton County, was killed by suffocation, due to gas and smoke, caused by

blast explosions. He leaves a widow and one child.

March 24, 1917, Herman Block, top foreman, age 39 years, married, employed by the Maplewood Coal Company at mine No. 1, Farmington, Fulton County, was killed by railroad cars. Deceased was pinching down two cars and was standing between them on the switch. When the cars were started he attempted to step from between them but his foot caught in the switch-frog and the rear car ran over him, causing injuries from which he died in a few hours at St. Mary's Hospital, Galesburg. He leaves a widow and five children.

Respectfully submitted,

DAVID Z. THRUSH,
State Inspector, Canton, Illinois.

### FATAL CASUALTIES, FOURTH DISTRICT, JUNE 30, 1917.

Date.	Name.	ge.	Occupation.	Residence.	farried.	ingle.	Vidow.	hildren.	Dependents.	Cause of death.
1017	Thomas Martin William A. Sietz Herman Block Total	39 39		Norris Farmington			1		6	

## RECAPITULATION OF FATAL ACCIDENTS, FOURTH DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery. No.
Centon. Farmington Norris	1	Driver. Foreman. Miner	1	Asphyxiated Pit cars Railroad cars	1 1 1 3	Genuine Norris C. Co

# NONFATAL CASUALTIES, FOURTH DISTRICT, JUNE 30, 1917.

		_		_	_	_			
Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
Aug. 18 Sept. 20 Oct. 6 13 19 26 Nov. 14 Dec. 5 1917 Jan. 5 16 Mar. 17 May 3 June 9	Wm. Deere, Jr. Orvil Spence.  C. Cadmar. Chas. Rankin. Roy Williams John Maggi. Hubert Walters. Clarence Tadovich. V. Riggliozzi. Jesse Hackett. P. G. Hemmersbach. William Herman.	22 45 36 30 35 54 31 22 24 20 43 37 17 27 28 32 43 34 34	Norris. St. David. do. Dunfermline. St. David. Farmington. Canton. do. St. David. Farmington. Canton. Middlegrove. Norris. Cuba. Norris. Cuba. do. St. David. Farmington. do. St. David. Farmington. Edisville. Norris.	111111111111111111111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 7 3 2 1 1 1 1 	2 7 4 3 1 1 1 2 2	Leg broken, falling slate. Leg broken, falling coal Leg broken, machine. Collar bone broken, pit car Leg cot off, machine Ribs broken, pit car Leg cut off, machine Ribs broken, falling slate Arm injured, falling slate Finger broken, pit car Body injured, pit car Leg broken, pit car Leg broken, pit car Leg broken, pit car Foot injured, pit car Ankle broken, falling timber Leg broken, mot or Leg broken, not stated Finger cut off, pit car Leg broken, not stated Leg broken, not stated Leg broken, not stated Leg broken, pit car Foot injured, pit car	35 40 37 92 * * 90 * *
Number Number	ot returned to work. rinjured r not returned to work. nber returned				T	im vei	e le rag	ost by men returned, days	,025 73, 21

# RECAPITULATION OF NONFATAL ACCIDENTS, FOURTH DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Bryant. Canton. Cuba. Dunfermline. Ellisville. Farmington. Middlegrove. Norris. St. David.	3 1 1 1 7 1 3 6	Cagers. Drivers. Laborers. Mch. runners. Miners. Motorman.	5	Falling clod Falling coal Falling slate Falling timber Falling timber Flying wedge. Machine. Motor Pit car Railroad car Not stated.	3 1 1 2 1 11	Alden Coal Co.  Big Creek Coal Co.  Eagle Mining Co.  Genuine Nortis Mining Co.  Maplewood Colliery Co.  National Coal Mining Co.  Silver Creek Colliery Co.  Spoon River Colliery Co.	10 2 2 2 2 2 4
Total	24		24		24		24

RECAPITULATION OF NONFATAL CASUALTIES, NATURE OF INJURIES, CON-JUGAL RELATIONS, AND TIME LOST, FOURTH DISTRICT, JUNE 30, 1917.

	ı;	-		i.	ents.	Time los	st—days.	age ries.
Nature of injuries.	Number	Married	Single.	Children	Dependent	Total.	Aver-	Percentage of injuries.
Ankle broken. Arm injured. Body injured. Collar bone broken. Eye destroyed. Finger broken. Finger eut off. Foot injured. Foot injured. Leg broken. Leg broken. Leg to off. Leg broken.	1 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	6	1 2 1 1 2 5	1 1 7 4 	1 2 7 5 5	92 33 41 136 40 75 90 40 37 441	92, 00 33, 00 41, 00 135, 00 40, 00 37, 50 90, 00 40, 00 37, 00 110, 25	4, 17 4, 17 4, 17 4, 17 4, 17 8, 32 4, 17 8, 32 45, 85 45, 87 4, 17
Total	24	12	12	28	35	1,025	73. 21	100, 0

One not returned.
Seven not returned.

					Dispos	ition of o	utput.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
	LOCAL MINES.							
1	Ed. Knight	Beardstown	1,500				1,500	

Mines in 1916, 1. Mines in 1917, 1.

# FULTON COUNTY,

1								ı
	SHIPPING MINES.							
d	Big Creek Coal Co., No. 2	St. David	300,127	288,593				11.5
	Silver Creek Colliery Co	Farmington.	279,708			05 000		4,5
	Big Creek Coal Co., No. 4	Dunfermline.				95,092	847	9,1
1	Monmouth Coal M. Co., No. 1.		207,007 172,413		[	61,867	041	5.6
		Brereton	1/2,410	81,625		79,552		
	Alden Coal Co., No. 8.	Farmington	163,876			65,909	276	2,6
	National Coal Mining Co	do	150,074	77,940				5,9
	Star Coal Co., No. 3	Cuba	147,278	52,210		92,515		2,5
	Simmons Coal Co	Canton	137,674	69,157				3,6
	Maplewood Colliery Co., No. 2	Farmington	132,053	124,275			804	6,9
	Eagle Mining Co	Canton	128,085	81,070		28,204	5,861	1,5
	Alden Coal Co., No. 6	Norris	127,839			60,226	1,708	
ij	Alden Coal Co., No. 5	Farmington	120,020	59,646		56,945	694	2,7
	Big Creek Coal Co., No. 3	Cuba	118,717	113,938	1,232		1,351	2,1
	Spoon River Colliery Co	London Mills.	102,239			31,707	1,011	3,0
	Maplewood Coal Co., No. 1		78,441					5,4
	Genuine Norris C. M. Co	Norris	66,129	47,866		16,160	487	1,6
	Coal Creek Mining Co	Fairview	41,930					
	Star Coal Co., No 2	Cuba	38,112	19,970		17,239		(
۱	Star Coal Co., No. 1	Fiatt	37,000	18,000		17,200		1,8
	Total		2,548,722	1,758,112	12,677	687,482	13,039	77,4
	LOCAL MINES.							
ĺ	Neal Baxter	Canton	35,000				34,500	5
	Joe McLaughlin	do					21,000	
	Middleton Coal Co	do					19,500	
	R. J. Nahn	Lewistown					17,000	
	Westerby Bros. & Gooden	Farmington	15 223				15,033	
	Picton & Bennett	Cuba	7 232				6,988	
	John Johnson	Canton	5 200				4,400	
	South & Lawson	Ellisville	5,200				5,000	
	Spenny Coal Co	Canton					4,448	
į	W. O. Falkenstein	Astoria					3,200	
	Talias Carl Co						3,000	
	Eclips Coal Co	do					9,000	
	Murphy & Sons	Canton						
ì	Gray & Son	Ipava						
	Ralph L. Wade	Canton	2.512					
	Harry Porter	St. David						
	M. R. Parks	Bluff City					2,500	
	A. J. Gunnett	Fairview						
	H. G. Baxter	do						
	Ross Parr	Astoria	1,640				1,590	
	Fred Lingenfelter	Canton	1,.87					
	Wm. Bath	St. David	1,535					
	O. H. Standard	Canton						
		Table G ove .	1 467		1 .		1 467	
1	Andrew Weber Frank Tindall	Table G ove .	1,701					

# FOURTH DISTRICT, 1917.

d for	sslble ex-	lns tic by	ns	operation.		Tons 1	nined.	number	Ac	ci- ats.	in use.	s under-	C pe	oal wash other sper erparing	ers or ecial plant.	
Kegs of powder used for blasting.	Pounds of permissI plosive used.	State inspector,	County inspector.	Days of active oper	Total employees.	By hand.	By machine.	Mining machines— in use.	Killed.	Injured.	Number of motors	Number of animals ground.	Number in use.	Average daily capacity.	Tons prepared during the year	Number.
8				210	3	1,500										1

# FOURTH DISTRICT, 1917.

										_				
	1													
7,757		2	1	259	333	28,662	271,465	13		7	3	30		 
16,400		3		261	225	279,708				4	1			
4,754		2	:	247	254	48,885	158,122	- 8		2	2	26		
9,872		3	1	258	200	172,413	163,876				2	15		
5,680		2		260	157	150.074	163,876	6		2		20		
10,687		2		263 251	160 181	150,074 147,278				2		20		
8,100 2,004		2	3	223	156	9,919	127,755	6	····i		····i	14		
		3		278	110	132.053				2	î	12		
7,119		41		251	165	128,085				2	î	10		
9,369		2		252	161					1	2	18		
		1	2	261	145	120,020						25		
6,890		4		217	148	118,717				1		10		 
7,302		4	1	261	131	102,239				1	1	10		 
4,981		2		272	85				1		1	7		
4,245	50	3	1	161	140				1	2				
2,425		2		244	34							4		
1,879		2	1	181	52							10		
3,049		2	2	295	43	37,000						4		 
				0.47		T 007 504	F01 010	33	3	24	15	287		 
129,921	50	48	12	247	2,880	1,827,504	721,218	33	3	24	19	287		 
_	=					-					_	_	-	
		1					1				}			
600		1	12	200	24	25 000	1					i		
														1
500			2		24									
500 500		1	2 3	200 200 200	22	21,000								 
500			2	200	22 28 10	21,000								 
500 1,000		1 2 1	2 3 4	200 200	22 28	21,000 20,000 17,000 15,333								 
500 1,000		1 2 1	2 3 4 2	200 200 250 264 200	22 28 10	21,000 20,000 17,000 15,333 7,332								 
1,000 700 340 260		1 2 1 1 1	2 3 4 2	200 200 250 264 200 160	22 28 10 19 8 10	21,000 20,000 17,000 15,333 7,332 5,200								
1,000 700 340 260		1 2 1	2 3 4  2 1 1	200 200 250 264 200 160 175	22 28 10 19 8 10 7	21,000 20,000 17,000 15,333 7,332 5,200 5,200								
1,000 700 340 260 300		1 2 1 1 1 1	2 3 4 2 1 1	200 200 250 264 200 160 175 150	22 28 10 19 8 10 7	21,000 20,000 17,000 15,333 7,332 5,200 5,200 4,448								
1,000 700 340 260 300		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 3 4  2 1 1	200 200 250 264 200 160 175 150 270	22 28 10 19 8 10 7 13 8	21,000 20,000 17,000 15,333 7,332 5,200 5,200 4,448 3,600								
1,000 700 340 260 300 		1 2 1 1 1 1	2 3 4 2 1 1 1 2	200 200 250 264 200 160 175 150 270 150	22 28 10 19 8 10 7 13 8	21,000 20,000 17,000 15,333 7,332 5,200 5,200 4,448 3,600 3,500								
1,000 700 340 260 300  70 200 200		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 3 4 2 1 1 1 2 3	200 200 250 264 200 160 175 150 270 150	22 28 10 19 8 10 7 13 8 9	21,000 20,000 17,000 15,333 7,332 5,200 5,200 4,448 3,600 3,500 2,800								
1,000 700 340 260 300  70 200 200 85		1 1 1 1 1 1 1 1 1	2 3 4 2 1 1 1 2	200 200 250 264 200 160 175 150 270 150 200	22 28 10 19 8 10 7 13 8 9 8	21,000 20,000 17,000 15,333 7,332 5,200 5,200 4,448 3,500 2,800 2,800								
1,000 700 340 260 300 70 200 200 85 170		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 3 4 2 1 1 1 2 3	200 200 250 264 200 160 175 150 270 150 200 168	22 28 10 19 8 10 7 13 8 9 8 3	21,000 20,000 17,000 15,333 7,332 5,200 5,200 4,448 3,600 3,500 2,800 2,800 2,512								
1,000 700 340 260 300 70 200 200 85 170 125		1 1 1 1 1 1 1 1 1	2 3 4 2 1 1 1 2 3	200 200 250 264 200 160 175 150 270 150 200 168 200	22 28 10 19 8 10 7 13 8 9 8 3 5	21,000 20,000 17,000 15,333 7,332 5,200 4,448 3,600 3,500 2,800 2,800 2,512 2,512								
500 1,000 700 340 260 300 		1 1 1 1 1 1 1 1	2 3 4 2 1 1 1 2 3	200 200 250 264 200 160 175 150 270 150 200 168 200 35	22 28 10 19 8 10 7 7 13 8 9 8 3	21,000 20,000 17,000 15,333 7,332 5,200 4,448 3,600 3,500 2,800 2,800 2,512 2,500 2,500								
500 1,000 700 340 260 300 		1 1 1 1 1 1 1 1 1	2 3 4 2 1 1 1 2 3	200 200 250 264 200 160 175 150 270 150 200 168 200	22 28 10 19 8 10 77 13 8 9 8 3 5 5	21,000 20,000 17,000 15,333 7,332 5,200 5,200 4,448 3,600 2,800 2,800 2,500 2,500 2,500 2,500 2,500								
500 1,000 700 340 260 300 		1 1 1 1 1 1 1 1	2 3 4 2 1 1 2 2 3 1 1 2 2	200 200 250 264 200 160 175 150 270 150 200 168 200 35 250 200	22 28 10 19 8 10 7 7 13 8 9 8 3	21,000 20,000 17,000 15,333 7,332 5,200 5,200 4,448 3,600 2,800 2,800 2,512 2,500 2,425 2,425 2,425 2,425								
700 200 200 200 85 170 125 16 200 80		1 2 1 1 1 1 1 1 2	2 3 4  2 1 1 1 2  3	200 200 250 264 200 160 175 150 270 150 200 168 200 35 250 200 200 230	22 28 10 19 8 10 7 13 8 9 8 3 5 5 4 5 2 7	21,000 20,000 17,000 15,333 7,332 5,200 5,200 4,448 3,600 2,800 2,800 2,512 2,500 2,425 2,425 2,425 2,425								
700 340 260 300 		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 3 4 2 1 1 1 2 2 1 2 2 2 2	200 200 250 264 200 160 175 150 270 150 200 168 200 35 250 200 200 230 224	22 28 10 19 8 10 7 13 8 9 8 3 5 5 4 4 5 2 7	21,000 20,000 17,000 15,333 7,332 5,200 5,200 4,448 3,600 3,500 2,800 2,500 2,500 2,500 2,500 1,640								
500 1,000 700 340 260 300 200 200 200 85 170 125 16 200 80 70 52 100 45		1 2 1 1 1 1 1 1 2	2 3 4  2 1 1 2  3  1 1 2	200 200 250 264 200 160 175 150 270 150 200 35 250 200 200 200 230 224 180	22 28 10 19 8 10 7 13 8 9 8 3 5 5 4 4 5 2 2 7 4 3 4	21,090 20,000 17,000 15,333 7,332 5,200 5,200 4,448 3,600 2,800 2,800 2,502 2,512 2,500 2,425 2,425 2,425 2,150 1,537 1,535								
500 1,000 700 340 260 300 200 200 85 170 125 16 200 80 70 52 100 45		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 3 4 2 1 1 1 2 2 1 2 2 2 2	200 200 250 264 200 160 175 150 270 150 200 168 200 35 250 200 200 230 224	22 28 10 19 8 10 7 13 8 9 8 3 5 5 4 4 5 2 7	21,000 20,000 17,000 15,333 7,332 5,200 4,448 3,600 2,800 2,500 2,512 2,500 2,425 2,00 1,640 1,587								

40								
					Disposi	ition of o	utput.	
	Name of operator.	Postoffice address of		ou p-	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	local	at the
		the mine.	tpu	ded shif	five nes.	degin to	1 to	at
per			no	loav s for	Sup omo	sold 1 ec	solc le.	ons cons
Number			Total output	Tons loaded on cars for ship- ment.	Tons loed the	road and cars.	Tons sold to local	Tons consumed wasted at the
5	I. R. Dubois	Norris	1 2000	1	<u>                                     </u>	1	<u> </u>	
6	William Dilts	Falrview	1,200				1.200	
7	Silas Simpson	Cuba Marietta					1,152	
9	L. A. Ratcliffe	Fairview	1,000		1		800	2
0	W. A. Sheets Nick Bennett.	do Cuba	960 850				960	
2	B. W. Dickson	Bryant	840				840	
3	James Grindle	Cuba	812					
5	E. E. Post. A. E. Wilson. Geo. Whitehead.	Bryant Astoria	800 800					
8	Geo. Whitehead	Lewistown	800				890	
8	Geo GoodmanBartol Zaborac	do St. Davld	775 750				775 750	
)	Geo. Provard	Canton	750				750	
(	John Turner Ed. Stanley	do Falrview	700 680				700	
2	D. A. Brown	Cuba	650				650	
3	C. Leonard F ank Adkinson	[paya	640					
	Charl s Raker	Breeds Lewistown	600					
ô	Lewis E. Johnson	Canton	600					
3	John Ealy F. C. Rouden	Marietta Cuba	560 554					
9	Isaac Hendee	Astoria	550				550	
1	Isaac Man	Canton	520 495				520	
2	Harry Baxter. E. A. Blackaby	Cuba	445				445	
31	Thos. Engle	do	440					
5	J. F. Strode	do Marietta						
	I Brewe	Cuba	400				400	
	Arthur Billings Peter Westerfield	Lewistown Canton	350					
	Draper Bros	Maple Mills	300				300	
)	Draper Bros. George Edgerly. Ed. Rinkenbaure.	Fairview	254			1	254	
	Yocum & Shields	do Lewistown	200				200	
	Fr d Neuneker	Bushnell	200				200	
	E. Kruzan	Ipava Marietta	200					
	Floyd Calhoun	Canton						
	Wm. Sheets	Fairview	150					
	Dan Bolinge C E. Clark	Cuba Lewistown	125		• • • • • • • • • • • • • • • • • • • •			
١	G. E. Garrett.	Astoria	100				100	
	D. G. Caplinger Memmen Bros	Cuba						
3	J. Orwig	Breeds Marietta					60	
	F. Hubble	Avon	60				60	
	Total		190,463				186,669	3,7

Mines in 1916, 114. New mines, 17. Abandoned mine, 38. Mines in 1917, 93.

# FOURTH DISTRICT, 1917—concluded.

ed for	ble ex-	Ins tie by	pec- ons	ation.		Tons	mined.	number	de	eci- nts.	in use.	under-		oal wash other so reparing	ecial	
Kegs of powder used for blasting.	Pounds of permissible explosives used.	State inspector.	County inspector.	Days of active operation.	Total employees.	By hand.	By machine.	Mining machines-number in use.	Killed.	Injured.	Number of motors in use.	Number of animals under- ground.	Number in use.	Average daily capacity.	Tons prepared dur- in the year.	
300 488 566 566 442 566 566 566 566 566 566 566 566 566 56		1 1 2 2 2 2	1 1 1 3 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1	1755 655 2100 2000 2000 2000 2200 1255 1500 01800 1300 1300 1500 1500 1500 1000 1277 800 400 500 500 500 500 200 200 1000 1277 500 400 500 500 500 500 200 200 200 1400 500 500 500 500 500 500 200 200 200 2	321133324 422233344522334452221111122211117441111111111111111111	1,200 1,200 1,100 1,100 1,100 1,000 1,000 1,000 1,000 800 810 810 810 810 810 810 810 810										
5				36 20	1 1	60										
14 129,935	50	29 	71 83	146	328	190,463	721,218	33	3	24	15	287				

					Disposi	ition of or	ıtput.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tone loaded on cars for ship- ment.	Tons supplied to locomofives at the mines.	Tons sold to rail- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
1 2	LOCAL MINES.  Meredith Bros., No. 1.  Jones & Ebens.  Total—2 mines.	Augustado	3,500 465 3,965				3,450 465 3,915	50

Mines in 1916, 3. Abandoned, 1. Mines in 1917, 2.

M'DONOUGH COUNTY,

-					 1		1
1	LOCAL MINES.						
1	Stone Bros	Colchester	0.440			9.440	
	Foster Coal Co						
						1,010	
	John Burton	do				850	
	Marion Maclure	do					
		do	680		 		
	Ed. Zinn				 	630	
l.	Jack McGrann	Colchester	600		 	600	
	John Wilson	do	580		 	i 580	
	Fox Bros	do	560		 	560	
	Webster & Stone	do	500		 	500	
	Star & Barnes		490			490	
	Elmer Hamilton	Blandinsville	480			480	
			451			451	
	Gilbert Miller	do					
		do	444				
	Forest Baker		380				
		do					
	Willis Nelson	Colchester					
	Berney & Stewart		349				
	James Guy	do	303		 	303	
	Baird Bros	do	262		 		
	Frank Murray	do	252		 	252	
	Frank Vogler	Birmingham.	250	1	 	250	
	C. E. Stone		250		 	250	
	Harpe & Fenton		247		 	247	
	James Wayland	do	245		 	245	
		do	216				
	John Kipling		205			205	
		Macomb	200				
		Colchester	175				
			170				
	C. H. Price						
	P. M. Jennings		170			170	
	George Curtis		163			163	
	Oscar Swanson	Coichester	160			160	
	W. L. Stoncking	Birmingham.	145				
	Henry Finch		140				
	T. N. Kipling		100			100	
	Wm. Jones	do	90		 	90	
ı	Clarence Martin	do	82		 	82	
	Lem Wiliams	do	65		 	65	
		do	60		 	60	
		do	52				
		do	50			50	
	James Wilson	do	42			42	
		do	30			30	
			16		 	16	
	James Wingo				 	1 10	
	George Polonus	Colchester	10		 	10	
	m-4-1 40		17 000		-	17 606	
	Total—48 mines		17,606		 	17,606	

# FOURTH DISTRICT, 1917.

d for	ble ex-	Ins tic by	pe«- ons	operation.		Tons	nined.	number	Ac der	ci- nts.	in use.	under-	pr	oal wash other spe eparing	ers or cial plant.	
Kegs of powder used for blasting.	Pounds of permissible plosives used.	State inspector.	County inspector.	Days of active oper	Total employees.	By hand.	By machine.	Mining machines— in use.	Killed.	Injured.	Number of motors	Number of animals ground.	Number in use.	A verage daily capicity.	Tons prepared during the year.	Number.
				280 120 200	5 3 8	3,500 465 3,965										1 2

# FOURTH DISTRICT, 1917.

	- 1		1	- 1	1								
	- 1		- 1		-								
1	1			205	_	0.440							
		:	1	225	7	2,440	 				• • • •		 
		1	2	200	7		 						 
		:		205	4	850	 						 
		1	1	160	4	807	 						 
			3	180	2	680	 						 
		1	2	170	3 2 5	630	 						 
		1	2	100	2	600	 						 
		1	2	120	5	580	 						 
			1	230	2 3	560	 						 
				170	3	500	 						 
			2	165	3	490	 						 
		1		120	4	480	 						 
		1	3	260	1	451	 						 
			1	150	4	450	 						 
			3	72	2 2 2 2	444	 				'		 
				200	2	430	 						 
			3	190	2	380	 						 
		1	2	162	2	355	 						 1
				180	2 2	360	 						 
			1	140	2	349	 						 
				60	3	303	 						 1
			3	70	6	262	 						 
			4	203	1	252	 						 
				85	1	250	 						 
				117	2	250							 
		· i	2	205	1	247							 
		î	2	120	2	245							 
			2	68	2 2	216							 
			3	102	2	205							
				180	2	200							 
			i	142	î	175							
				55	2	170							 
				88	2 2	170							 
		···i	2	105	ĩ	163							 
		î	ĩ	130	î	160							 
		,	î	92	1	145							 1
		· · · i	i	65		140							 
			1	49	2 2 2 2 2 2 2	100							 
			1	40	5	90							 1
				48	2	82							 
			3	30	2	65							 
		;	0		2							1	 
		1	1	45 90	1	60 52							 
			2	24	2	50							 
• • • • • •			2	48	1								 
			1		1	42			1			1	 
			1		1	30							 
				14	1	16							 
			1	16	1	10	 						 
			1	_			 _	-	-	-	-		 

## MORGAN COUNTY,

					Disposi	tion of o	ıtput.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to railroad companies and loaded on ears.	Tons sold to local trade.	Tons consumed or- wasted at the mine.
1 2	LOCAL MINES. W. T. Fisher Charles Wagstaff Total—2 mines		700 300 1,000				700 300 1,000	

Mines in 1916, 2. Mines in 1917, 2.

## SCHUYLER COUNTY,

Harry Settles	do		 	2,500 1,800	
J. R. Thompson	do	1,750	 	 1,750	
E. E. Vogler	Littleton .do Pleasantview.	1,080 975		 1,080 975	
C. H. Price Ben Estes.	Littleton Brooklyn	850 850	 	 850 850	
Wheelhouse & Tomlinson	Ray Frederick Rushville	655 650	 	 655 650	
A. Gorden	Ray Camden Pleasantview.	500	 	 500	
J. G. Passano. C. A. Tomilson.	Ray Rushville Camden	450 416	 	 450 416	
William Vencent	Littleton Rushville	350 335	 	 350 335	
Sherley & Stewart	Huntsville Pleasantview.	260 250	 	 260 250	
Will Skiles	do Littleton Birmingham.	225	 	 225	
Alving Hartfort	Littleton	125 125	 	 125 125	
	Huntsville			24,154	

Mines in 1916, 30. New mines, 17. Abandoned mines, 15. Mines in 1917, 32.

# FOURTH DISTRICT, 1917.

used for	TO ON	Insp tio by	ns	operation.		Tons	nined.	aumber		eei- nts.	in use.	under-	С	oal wash other sper erparing	ers or ecial plant.	
powder ing.	plosive u	State inspector.	County inspector.	Days of active opera	Total employees.	By hand.	By machine.	Mining machines—r in use.	Killed.	Injured.	Number of motors i	Number of animals ground.	Number in use.	Average daily eapacity.	Tons prepared dur- ing the year.	Mumber
				260 150	4 2	700 300 1,000										

# FOURTH DISTRICT, 1917.

			-	1							1	1
			- 1	1								
200	 2	3	190	6	2,975				 		l	 
210	 1	2	200	5	2,500				 			 
200	 		200	7	1,800				 			 
210	 1	3	225	6	1,800				 			 
200	 		200	9	1,750				 			 
200	1	2	250	5	1,500				 			 
	1	4	250	2	1,080				 			 
175	 1	4	175	3	975				 			 
	 	1	250	2	880				 			 
40			250	3	850				 			 
50	 		50	2	850				 			 
	 	4	175	3	750				 			 
	 	1	200	3	655				 			 
30	 		150	2	650				 			 
	 		110	2	540				 			 
	 	1	180	2	500				 			 
	 1	2	100	2	480	,			 			 
	 	1	175	2	450				 			 
	 	1	210	1	416				 			 
	 	1	225	1	350				 			 
	 	1	215	2	350				 			 
	 :	1	125	2	335				 			 
	 1	3	80	2	260				 		١	 1
	 	2	65	2	260				 			 
	 		150	2	250				 			 
	 1	2	115	2	233				 			 
	 :		175	1	225				 			 
	 1	3	100	1	175				 			 
	 		75	1	125				 			 
	 		50 30	2	125				 			 
				2	35				 1			 
	 		30	2	30				 			 
1 515	11	49	155	00	94 154		_	_	 			
1,515	 11	42	155	88	24,154				 			 

SCOTT COUNTY,

					Disposi	tion of or	ıtput.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rall- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
1 2 3 4 5 6 7	LOCAL MINES. G. W. Northrop James J. Morris. Robert L. Brown Charles Taylor J. A. Jones George Sellers David Orchard Total—7 mines	Exe er	778 650 520 440 200 192 160				778 650 520 440 200 192 160	

Mines in 1916, 8. New mines 1. Abandoned mines 2. Mines in 1917, 7.

# FOURTH DISTRICT, 1917.

d for	ole ex-	Ins tic by	ns	ation.		Tons i	nined.	number	Ac		in use.	under-		oal wash other spe reparing	ecial	
Kegs of powder used for blasting.	Pounds of permissible plosives used.	State inspector.	County inspector.	Days of active operation.	Total employees.	By hand.	By machine.	Mining machines—i	Killed.	Injured.	Number of motors	Number of animals ground.	Number in use.	Average dally capacity.	Tons prepared during the year.	Number.
		1	1 1 1 1 1 1 1 5	200 170 175 90 60 120 125	3 2 4 4 2 2 1	778 650 520 440 200 192 160										1 2 3 4 5 6 7

#### SHIPPING MINES, RECAPITULATION BY

					Dispos	it <b>ion</b> of or	ıtput.		1 for	ole ex-
Number.	Couuties.	Number of mines.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives a the mines.	Tons sold to rall- road companies and loaded on cars.	Sold to local trade.	Consumed or wasted at the mine.	Kegs of powder used blasting	Pounds of permissible plosives used.
1	Fulton	19	2,548,722	1,758,112	12,677	687,482	13,039	77,412	129,921	50
	Total	19	2,548,722	1,758,112	12,677	687,482	13,039	77,412	129,921	50

#### LOCAL MINES, RECAPITULATION BY

l Cass. 2 Fulton. 3 Hancock. 4 McDonough 5 Morgan. 6 Schuyler. 7 Scott. Total. The district.	2 3,965 48 17,606 2 1,000 32 24,154 7 2,940 166 241,628		186,669 3,915 17,606 1,000 24,154 2,940 237,784	1,515 3,844 1,537	50
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## ALL MINES, RECAPITULATION BY

1 Cass	1	1 500				1 500		. 8	
2 Fulton	93	2,739,185	1,758,112	12,677	687,482	199,708	81,206	129,935	50
3 Hancock	2 48	3,965				3,915	50		
4 McDonough	48	17,606				17,606			
5 Morgan 6 Schuyler	2 32	24 154						1,515	
7 Scott	7	2,940				2,940			
Total	185	2,790,350	1,758,112	12,677	687,482	250,823	81,256	131,458	50

Whole number of mines reported for 1916, 208. Number of new and reopened mines during the year, 44. Number of mines abandoned during the year, 67. Whole number of mines reported for 1917, 185.

# COUNTIES, FOURTH DISTRICT, 1917.

ttion.		Tons n	nined.	ŝ	Accid	lents.		.pq.	Coal w	rashers of eial prepa plant.	r other ring	
Days of active operation	Total employees.	By hand.	By machine.	Number of machines.	Killed.	Injured.	Number of motors.	Animals underground	Number in use.	Average daily capacity.	Tons prepared during the year.	Number.
247	2,880	1,827,504	721,218	33	3	24	15	287				1
247	2,880	1,827,504	721,218	33	3	24	15	287				

# COUNTIES, FOURTH DISTRICT, 1917.

210   3   1,500
-----------------

# COUNTIES, FOURTH DISTRICT, 1917.

152 3,442 2,069,132 721,218 33 3 24 15 287	210 167 200 119 206 155 134	8 111 6 88 18	17,606 1,000 24,154 2,940	721,218								
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## FIFTH INSPECTION DISTRICT.

Counties—Christian, Macon, Moultrie, Shelby and Vermilion. Joseph Haskins, Inspector.

Hon. Evan D. John, Director, Department of Mines and Minerals, Springfield.

Sir: I have the honor to submit to you the annual report of this, the Fifth District, comprising the coal producing counties of Christian, Macon, Moultrie, Shelby and Vermilion.

#### SUMMARY OF THE ITEMS IN THE REPORT.

the number of men employed, 1917 and 1916, with the increase or decrease in each:

	1	1917		1	1916		Incre	Decrease.				
County.	Output- tons.	Days worked.	Men em- ployed	Output- tons.	Days worked.	Men em- ployed.	Tons.	Days.	Men.	Tons.	Days.	Men.
Christian. Macon. Moultrie. Shelby. Vermilion.  Total and average	2,822,167 259,004 239,818 95,682 3,299,419 6,716,090	174 258 183 201	2,750 462 200 215 3,232 6,859	173.530 180,040 82,650 2,608,815	196 209 213 171 171	376 178 151 2,978	448,805 85,474 59,778 13,032 690,604	45 12 30	86 22 64		25	

#### NEW AND REOPENED MINES.

The following are the new and reopened mines: Pana Coal Co., No. 1, Pana, Christian County.

Niantic Mining Co., Niantic, Macon County.

Tower Hill Coal Co., Tower Hill; John O'Brien, Shelbyville, Shelby

Peabody Coal Co., No. 24, United States Fuel Co., Westville; Ohio Fuel Co., Reffett & Brant, Grape Creek; Brady Branch Coal Co., F. L. Branaman, Wm. J. Parson, Danville; Frank Holmgrem, Catlin; Lawrence Balduchi, Fairmount, Vermillion County.

#### ABANDONED AND CLOSED MINES.

Shelby County.—B. F. Stretch & Son, Shelbyville.

Vermilion County.—Producers Coal Co., No. 22, Clingem Bros., Ed. Wooster, Jake Willis, Fred Lafferty, Westville; Charles E. Ling, Mrs. W. A. Cole, Westfall Coal Co., Cunningham and Cunningham, Danville; Palmer Coal Co., Ellis Peffett, James Brown, Willis Jenkins, Grape Creek.

#### CHANGE OF NAME.

Springfield C. M. Co. No. 6 to Springfield District Coal Mining Co. No. 8; Bunsen Coal Co., Nos. 3, 4, and Vermilion, to United States Fuel Co. Nos. 3, 4, and Vermilion.

#### FATAL ACCIDENTS.

July 16, 1916, Valentino Plorendo, miner, age 34 years, single, was killed in Peabody Coal Company's No. 24 mine, Westville, Vermillon County, by falling rock.

August 25, 1916, Louis Venzon, loader, age 32 years, married, was killed by a shot explosion in Peabody Coal Company's No. 7 mine, Kincaid,

Christian County. He leaves a widow and five children.

October 9, 1916, Peter Fosatti, machine runner, age 42 years, single, was killed by pit cars in United States Fuel Company's Vermilion mine, Westville, Vermilion County.

October 10, 1916, Dimetro Borracorsi, driver, age 29 years, single, was killed in United States Fuel Company's No. 4 mine, Westville, Vermilion

County, by pit cars.

November 25, 1916, Frew Gelonek, miner, age 62 years, married, employed in Decatur Coal Company's No. 2 mine, Decatur, Macon County, was killed by a fall of rock. He leaves a widow.

December 14, 1916, Thomas Raymond, loader, age 33 years, single, was

December 14, 1916, Thomas Raymond, loader, age 33 years, single, was killed by a shot explosion in Peabody Coal Company's No. 7 mine, Kincaid,

Christian County. He leaves one dependent.

December 22, 1916, Miro Ambrosia, loader, age 32 years, single, was killed by falling coal in Peabody Coal Company's No. 8 mine, Kincaid,

Christian County.

January 15, 1917, Charles Taylor, engineer, age 54 years, married, employed by the Contract Mining Company, Danville, Vermilion County, fell from incline track and killed. Deceased's duty was to pull loaded cars up an incline to the tipple and dump them for use at the brick yard. On this day while dumping a car, it is supposed he fell to the ground, a distance of nine feet. He was dead when found later by an employee. He leaves a widow.

January 27, 1917, Elmer Dyer, machine runner, age 35 years, married, was killed by falling coal in Peabody Coal Company's mine, No. 21, Stoning-

ton, Christian County. He leaves a widow and one child.

March 5, 1917, John Woodard, miner, age 37 years, single, was killed by a fall of rock in the mine of the Woodard Coal Company, Oakwood, Vermilion County, He leaves no dependent his mother.

milion County. He leaves one dependent, his mother.

March 15, 1917, Henry Clerick, trip rider, age 22 years, single, was killed by pit cars, in Peabody Coal Company's No. 8 mine, Kincaid, Christian County.

April 9, 1917, Thomas M. Burke, miner, age 35 years, married, was killed by falling coal in Penwell Coal Company's mine, Pana, Christian County. He leaves a widow and two children.

April 23, 1917, Virgil Elliott, driver, age 18 years, single, was killed by pit cars in United Fuel Company's mine, Danville, Vermilion County.

April 28, 1917, James White, cager, age 34 years, single, fell off the cage in Peabody Coal Company's No. 21 mine, stonington, Christian County, and

June 1, 1917, Charles Scott, miner, age 65 years, married, was killed by faling coal in Penwell Coal Company's mine, Pana, Christian County. He leaves a widow and four children.

June 1, 1917, Tony Cambrozia, machine runner, age 32 years, single, was killed in Peabody Coal Company's No. 7 mine, Kincaid, Christian County, by falling slate.

Respectfully submitted,

JOSEPH HASKINS, Inspector, Catlin, Illinois.

#### FATAL CASUALTIES, FIFTH DISTRICT, JUNE 30, 1917.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
Dec. 14 22 1917 Jan. 15 27 Mar. 5 15 Apr. 9 23 June 1	Valentino Piorendo. Louis Venzon. Peter Fosstil. Peter Fosstil. Prew Gelonek. Thos. Raymond. Miro Ambrosia. Charles Taylor Elmer Dyer. John Woodard. Henry Clerick. Thomas M. Burke. Vir gil Elliott. James White. Charles Scott. Totyl. Totyl. Totyl. Totyl. Totyl. Totyl.	33 32 54 35 37 22 35 18 34 65 32	Loader	Danville Stonington Fairmount Kineaid Pana Westville Stonington Pana Kineaid	1 1 1  1	1 1 1 1 1	1 1 1 	1 1 	1 2 1	Snot explosion. Falling coal. Fell off incline weak. Falling coal. Falling rock. Pit car. Falling coal. Pit car. Fell off cage. Falling coal.

## RECAPITULATION OF FATAL ACCIDENTS, FIFTH DISTRICT, 1917.

Residence.	No	Occupation.	No.	Cause of accident.	No.	Colliery.	No
Danville. Decatur. Fairmount. Kincaid. Pana. Stonington. Tovey. Westwille.	1 1 4 2 2 1	Cager Drivers. Engineer Loaders Machine runners. Miners Trip rider	2 1 3 3 5	Falling coal Falling rock Falling slate Fell off cage. Fell off incline track Pit cars. Shot explosion.	3 1 1	Contract Mining Co Decatur Coal Co Peabody Coal Co Penwell Coal Co United States Fuel Co Woodard Coal Co	1 1 8 2 3 1
Total	16		16	• • • • • • • • • • • • • • • • • • • •	16		16

# NONFATAL CASUALTIES, FIFTH DISTRICT, JUNE 30, 1917.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1916 July 1	Robert Mackey	42	Lovington	1		1	2	Leg troken, falling coal	125
1/	Chris Campbell	nU	westvine	1		1 3	2	Ankle injured, motor Leg broken, falling rock	174
19	Jno. L. Callais Fermin Gerin	50	Westville	1		1	2	do	187
Aug. 1	Fermin Gerin Geo, Grugan Newton Cubbage. George Weigler Wm. Kindle Wm. Rudan William Davis Fred Fetche Sam Grady. Jno, Moore	38	Nokomis Danville	1		····i	1 2	Body injured, gas explosion Leg broken, struck by jack pipe	62 121
4	George Weigler	29	Bluemound	1	-:	4	5	Foot injured, latch	62 140
7	Wm. Rudan	60	Pana	····i		3	4	Foot injured, latch. Foot broken, mo.or Head injured, pit car Finger injured, pit car	36
8	William Davis	46	Dauville	1	- ;		1	Finger injured, pit car Leg injured, squeezed by mule.	30
18	Sam Grady	60	Assumption	· · · i			1	Leg injured, falling rock	73
23	Jno. Moore	36	Stonington	1	::	4 2	5	Ankle injured, not stated	31 30
28	Jacob Bru etti	50	Westville	1	1:	5	6	Ankle injured, nor stated Rib broken, falling timber	48 30
Sept. 5	Lafe Hogg Jaeob Bru-etti N. O. Green Joe Deynonski	26	do		1 .			Hand injured, machine Leg injured, falling coal Toe broken, falling coal	34
9	John Blary. Guss Frichoff. Harry Shumaker. Seb. Marsiglio. Stanley Zurkes. Claude Elliott Geo Midley	30	Georgetown	1	::	2	3		
18	Harry Shumaker	36	Oakwood	i		5	6	Ankle broken, pit car Leg injured, falling coal Leg broken, falling rock.	65 32
22 28	Seb. Marsiglio Stanley Zurkes	29 35	Kincaid Georgetown	····	1		4	Leg broken, falling rock	95
Oct. 3	Claude Elliott	20	Westville	;	1	10		Leg injured, pit car	36
6	John Perry	30	Taylorville	;			1	Leg injured, pit car Leg injured, falling coal Foot injured, falling coal	38
6	Geo. Midley John Perry Charles Jowelis Joe Pope Tony Shiminski	42	Westville		1		4	Collar bone broken, falling rock	120
12	Tony Shiminski	32	Westville	i	١	1	2	Leg injured, cage dropped Leg injured, falling coal	123
13 19	John Hiatt Ed. Talioria	35 28	Moweaqua Kincaid	····	1	4	5	Leg injured, failing coaldodo	103
19	A. Pernot	40	Taylorville		١	8	9	Rib broken, fell down	130
20 20						4	5	Foot injured, falling rock Toe broken, falling coal	45
23	Walter Serapinas	24	do		1	4		Finger injured, cangut underrai	1 83
26	Chas, Borasch	45	do	1	l::	3		Foor injured falling coal	38
Nov. 1	Carl Donglass	26	Georgetown		. 1	2	3	Leg broken, falling coal Finger injured, not stated	69
6	Walter Scrapinas. Mike Mareno. Chas. Borasch. Carl Donglass. A. Penehus. Arthur Hattes.	21	. do		1			Finger injured, not stated.  Ankle injured, falling coal.  Hand injured, falling rock.  Leg broken, falling rock.	30
6	Peter Budris. Frank Gaita John Neaton. Frank Strayser.	30	Pawnee		i	3	4	Leg broken, falling rock	*
8	John Neaton	20	Assumption		i . 1	3		Eye injured, flying coal Head injured, falling coal	
13	Mose Marraige. Stanley Mitkus.	20	Batestown		i			Finger cut off, pit car	.   30
16	IWm Clark	146	l do		1	. 2	3	Shoulder injured, pit car Leg injured, machine	. 40
17	Julius Benvger Frank Petriak	65	Pana		1	. 3	4	Foot injured, falling coal Jaw broken, falling rock	. 31
					i			Back injured, lifting coal	. 180
22	Chas, James John Leitard. Lawrence Holcomb Wm. Erwin.	140	Grape Creek		1	2		Wrist broken, car door Leg injured, falling prop	. 35
25	Lawrence Holcomb	20	Catlin		1			Shoulder injured, pit cars	. 30
28	Uteorge Yunos	1189	westvine	1	1 -	i		Head injured, flying bar Fingers injured, pit car	. 42
Dec. 2	Maris Domenince Terry Arterburn	63	Westville		1	. 8	3 9	Shoulder broken, pit cars	. 72
					1	. 1	1 3	Leg injured, motor	. 32
10	Mike Chantos	57	Georgetown		1	3	3 4	Back injured, pit car	38
19	Mike Chantos Walter Sontafski Frank O'Tool Thomas O'Day Isaac Jenkins August Balun R. W. Marshall Louis Verdonk Alber Swanski	64	Hilliary		1	.  (	3	Back injured, pit car Leg broken, falling rock Leg broken, falling coal Leg broken, pit car Leg broken, pit car Finger ent off, falling rock Finger lipitred, pit car	. 180
20	Thomas O'Day	54  47	Westville		1		3	Leg broken, pit car	208
21	August Balun	14	do		1	. 1	3	Fingers cut off, falling rock	87
2	Louis Verdonk	30	Assumption		1		2	3 Leg broken, pit car	
27	Alber Swanski	149	do		1	-  5	2	3 Leg broken, pit car	. 39
28	Alber Swanski B Eugene Tibweski Joe Jacobs	30	Danville		1			Foot broken, pit car	. 56
						1		Rib broken, pit car	30
Jan.	George Haworth Peter Bartkas	38	do		i	- 4	1	Fingers injured, falling rock	-

# NONFATAL CASUALTIES, FIFTH DISTRICT, JUNE 30, 1917—continued.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents	Character of injury and cause of accident.	Time lost-
1917		Ī							
Jan.	3 C. Hackel 5 James Oliver 7 John Barratto. 1 Tony Shimkus 1 Joe Witkus 1 Elmer Carlyle 6 Jos. Mikloutsch 6 Harry Colberg 6 Chas Chrisman	24	Lovington	1		2	3	Back injured, lifting coal	
	James Oliver	56	Westville	1	٠:	3	4		
	John Barratto	19	Kincaid		1			Pelvis broken, pit cars. Leg broken, falling clod	
1	1 Ioo Withus	50	Westville	;	1	4	****	Leg broken, falling clod. Leg broken, falling rock. Foot injured, falling coal. Head injured, falling slate. Foot injured, falling coal Head injured bursting steam	2
î	1 Elmer Carlyla	40	Decatur	1		1	9	Foot injured falling coal	1 2
î	Jos. Mikloutsch	24	Pana		i	•	-	Head injured falling slate	1
1	6 Harry Colberg	16	Danville		1			Foot injured, falling coal	l ^
1	6 Chas Chrisman	33	Georgetown	1		3	4		
	T I D C			١.					
Ţ	S.F. H. De Groat	30	Decatur	1		1	2	Arm injured, falling coal Foot injured, falling coal Foot cut off, falling clod.	
1	Art Dhormos	40	Assumption	1		4	1	Foot injured, latting coat	
2	Mike Drenke	21	Westwille	1		1	9	Collar bone broken, pit car	
2	Loe Sprague	52	Lovington	Î		6	7	Body injured, falling coal	
2	Wm. Hawkins	42	Danville		1			Foot injured, pit car	
2	8 F. H. De Groat 8 David Ziek 9 Art Dhermey 2 Mike Dranke 4 Joe Sprague 4 Wm. Hawkins 4 A. Dudish 5 Wm. Crawford	50	Lovington	1		3	4	Foot injured, pit car Foot injured, falling coal	
2	Wm. Crawford	33	Danville	1			1	Finger broken, pit car	
2	5 Z. W. Astling	36	Tovey		1	:	;	Finger broken, pit car Body injured, falling coal Wrist injured, fell.	
2	Louis Salor	24	Wortwillo	1	-;	5	1	Wrist injured, lell	
3	A. Dudish 5 Wm. Crawford 5 Z. W. Astling 7 C. Tolliver 1) Louis Saloy 1) Joe Wesley 1 Chas Bennett 7 Ben Landers 1) George Powell 2) Chas Feigenhawer 1) John Giza 2) Joe Bohanik 3 Earl Allen 3 F. Heinseh 3 Herchel Simms 5 Ferdinand Mina 1) John Shaffer 2 Eugene Lusebrink 4 Theo. Morrell 3 John W. Bowen	28	Tarlorvilla	1	1		····i	Finger broken, falling rock	
3	Chas. Bennett	49	Danville	1	::	5	6	Foot injured, pit car. Leg broken, falling rock	1
Feb.	Ben Landers	22	Stonington		1			Fingers cut off, pit ear. Ankle injured, falling coal. Foot injured, falling bar.	1
	George Powell	32	Westville	1			1	Ankle injured, falling coal	
	Chas. Felgenhawer	30	do	1		1	2	Foot injured, falling bar	
	John Giza	51	Pana		1			Body injured, failing state	1
1:	2 Joe Bohanik	33	Westville	1	-:	5	6	Rib broken, fell	
1.	Earl Allen	23	Stonington	;	1	;	• • • • •	Wrist broken, pit car. Finger broken, falling coal. Arm broken, pit car.	
1	Horehal Simms	47	Ookwood	1 1		4	5	Arm broken pit car	
1	Ferdinand Mina	23	Westville	1 1	::		1	Leg injured pushing car	
2	John Shaffer	39	do	Î		3	4	Leg injured, pushing car. Body injured, pushing car. Hand broken, pit car. Arm injured, pit car. Finger cut off, pit car. Coller bone broken, falling coal.	
2	Eugene Lusebrink	18	Kineaid		1			Hand broken, pit car	
2	Theo. Morrell	50	Moweaqua	1		1	2	Arm injured, pit car	
2	John W. Bowen	29	Danville	1		2	3	Finger cut off, pit car	١.
M 2	G. O. Call	53	Pana	· · · i	1	····5		Collar bone broken, falling coal. Rib broken, struck by crow blanch	1
Mar.	7 G. O. Call S K. S. Williams.	50	Georgetown	1		5	6	Handa burned powder ovel	
	5 John Hacana	30	moweaqua	1	• •	3	. 0	Hands burned, powder explo- sion	1
1	Joe Valinchs	51	Westville	1			1		1
1	Joe Valinchs.  B. Antonio. Chas. Armstrong. G. W. Armstrong. G. W. Render. Geo. Baker. Louis Lecomt. Jess Stivers. Wm. Yonkers. Samuel Brock.	42	Taylorville		1			Foot injured, falling coal Body injured, falling rock Body injured, falling coal	
1	Chas. Armstrong	56	Georgetown	1			1	Body injured, falling rock	١.
1	Van Hunt	60	Pana	1		3	1	Body injured, falling coal	1
1	G. W. Render	58	Danville	1			1	Leg injured, falling rock	1
1	Louis Loomt	40	Westville	1		5		Wrist broken, pit car	
1	less Stivers	33	Pana	1 1			1	Leg broken, pii cars. Ribs broken, fell in sump Body injured, pit ear. Eye destroyed, flying coal. Eye injured, flying coal. Leg broken, falling rock. Toe injured, pit ear. Toe broken, falling coal.	
î	Wm. Yonkers	42	Stonington	î		4	4	Body injured, pit car	
1	Samuel Brock	62	Hilliary	1			1	Eve destroyed, flying coal	
1	John Sullivan	50	Danville		1			Eye injured, flying coal	
2	Joe Lutich	30	Westville		1			Leg broken, falling rock	
2	Angelo Pusto	40	do		1			Toe injured, pit ear	
2	Chas Cruber	20	Pana	;	11	4		Finger injured struck by wire	
2	S John Leitard Ir	24	Grane Creek	1	1	4	3	Leg broken falling rock	1
Apr.	J Wm. Yonkers Samuel Brock JJohn Sullivan JJoe Lutieh I Angelo Pusto 3 Andy Pelet G Chas Gruber J John Leitard, Jr. J John Naton Andy Flught Chas Maples. Geo. Hansbrough B. E. Roberts Chas Clove.	53	Pana		î			Finger injured, struck by wire. Leg broken, falling rock Ankle broken, falling coal Body injured electric shock	
	Andy Fiught	55	do	1		2	3	Body injured electric shock	
1	Chas Maples	50	Stonington	1		6			
1	Geo. Hansbrough	47	westville	1	- ;	3	4	Leg broken, pit ear	
1	R. E Roberts Chas. Lowe	40	Moweaqua	:	1			Leg broken, pit ear Rib broken, pit ear Rib broken, not stated Foot injured, sprag fell. Rib injured, failing coal Finger broken, falling rock Leg broken, falling rock Shoulder injured, lifting ear Rib broken, falling rock	
1.	Chas Miller	15	do do	1	• •	4	0	Pib injured, Sprag len	
2	Wm. Elliott	39	Westville	1		2	3	Finger broken, falling rock	
2	Frank Dulginits	36	do	. 1		ĩ	2	Leg broken, failing rock,	
2	Dominich Cardonerva	48	do	i		2	3	Shoulder injured, lifting car	
2	Peter Stanevicz	30	do		1			Rib broken, falling rock	
2	W. M. Crase	65	do	···i		1	2	Body injured, pit car	
Mor 2	i Chas. Lowe (Chas. Miller ) Wm. Elliott ) Frank Dulginits. (Dominich Cardonerva 4 Peter Stanevicz ) W. M. Crase. Stanley Pzlanski (Chas. Doggett. ) Mike Kovalski (Stanley Plarczik	50	do		1			Eye injured, flying coal	
May	Miles Voyalski	10	Catiln	I I	::	5	9	Rib broken, falling rock.  Body injured, pit car.  Eye injured, flying coal Foot injured, pit cars.  Leg broken, falling rock.	

# NONFATAL CASUALTIES, FIFTH DISTRICT, JUNE 30, 1917—concluded.

Date.	Name.	Residence.	Married.	Single.	Children.	Dependents,	Character of injury and eause of accident.	Time lost—days.
6 6 6 8 8 8 8 8 9 10 12 12 13 14 15 12 22 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Aug. Moissen, Sr.  Aug. Moissen, Jr.  Joe Dziabas.  Art Carmon.  Dominie Janshansky  Wasco Mepco.  Tony Senaivitis.  Fred Fleming.  George Zanto.  Frank Dowiatt  Peter Rosiny.  Jesse James.  John Freitek.  Andrew Venadsky.  Julius Strocker.  Wm. Karther.  Carlo Marthno.  Raphielithy.  R. T. Riley.  Tony Barnoski.  George Watkins.  Emanuel Collen.  Tony Yonzartis.  Wm. Rimiausky.  Paul Grappi.  Stanley Ross.  Amos Hawkins.  Total.	19 do		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 5 4 1 2 4 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Body injured, pit ear. Finger cut off, ear door. Foot injured, falling rock. Foot injured, falling rock. Foot injured, pit ear. Arm broken, flying coal. Wrist injured, falling coal. Eye injured, foreign substance. Collar bone broken, pit ear. Body injured, falling rock. Toe cut off, falling rock. Finger injured, lifting car. Collar bone broken, filting car. Eye injured, flying coal. Body injured, falling coal. Eye injured, falling coal. Eye injured, falling coal. Eye injured, flying coal. Foot broken, falling rock. Back injured, lifting rock. Ankle broken, pit car. Pelvis broken, falling rock. Hand injured, falling rock.	422 411 300 333 577 300 611 455 488 755 329 466 ** ** ** ** ** ** ** ** ** ** ** ** *

* Not returned to work July 1, 1917.  Number injured  Number not returned to work		Time lost by men returned, days	
_			
Number returned	157		

# RECAPITULATION OF NONFATAL ACCIDENTS, FIFTH DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of aecident.	No.	Colliery.	No.
Assumption Batestown Batestown Batestown Blue Mound Catlin Danville Decatur Georgetown Grape Creek Hillilary Kineaid Lovington Moweagua Noscomis Oakwood Pana Stonington Taylorville Tovey.	1 2 2 17 9 12 3 2 7 5 5 1 2 13 1 12 11 15 3	Cager Carpenter Carpenter Couplers Drivers Engineer Firemen Laborers Loaders Machine helpers Machine runners Miners Miners Mitorman Trimbermen Traekman Trip riders	1 4 21 1 2 21 6 3 5 95 1 4	Bursting pipe Cage Cage Cage Cage Cage Cage Cage Cag	1	Assumption Coal Co Danville Collieries Co Deaturi Coal Co. Lovington C. M. Co. Migs. & Con. C. Co. J. H. Mauek Missionfield M. Co. Moweaqua C. M. & Mig. Co Peabody Coal Co Perwell Coal Co Smith-Lohr Coal Co Two Rivers Coal Co Two Rivers Coal Co Two Rivers Coal Co United States Fuel Co. W. J. Watkins	3

RECAPITULATION OF NONFATAL CASUALTIES, NATURE OF INJURIES, CON-JUGAL RELATIONS, AND TIME LOST, FIFTH DISTRICT, JUNE 30, 1917.

Nature of injuries.	Number.	Married.	Single.	Children.	Dependents.	Total	vage.	Percentage of injuries.
Ankle broken¹ Ankle injured Ankle injured Arm broken Arm injured Body injured¹ Body injured¹ Collar bone broken Eye destroyed Eye injured Finger broken Finger broken Finger injured Foot cut off¹ Foot broken¹ Hand injured Hand broken Leg injured Hand broken Hand injured Hand broken Head injured Head injured Head injured Head injured Head injured Leg broken¹ Leg injured Deg broken¹ Leg injured Pelvis broken¹ Rib broken Rib broken Shoulder injured Toe broken Toe cut off¹ Wrist broken Toe cut off  Wrist broken	2 5 3 2 2 2 4 15 5 5 1 8 5 5 5 1 21 22 14 4 6 6 1 3 3 2 2	1 4 1 2 2 2 13 3 2 2 1 1 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 2 2 2 3 3 5 1 1 3 2 1 1 3 1 3 1 1 3 1 1 1 1 1 1 1 1	3 8 4 4 2 9 9 6 4 4 12 13 15 18 8 8 4 4 40 3 3 10 11 11 8 5 5 2 4 2 1 2 1 8 1 1 8 1 8 1 1 1 1 1 1 1 1 1 1	4 12 5 4 11 32 6 6 6 1 7 7 7 7 25 12 15 15 8 8 6 2 9 9 9 9 9 9 15 15 15 15 15 15 15 15 15 15 15 15 15	31 213 197 64 286 853 348 48 9 216 214 413 281 1,015 1,015 324 37 37 7 45 2,089 807 7 7 6 6 6 7 7 8 7 8 8 7 7 8 8 8 8 8 8	31, 00 42, 60 65, 67 32, 00 71, 50 60, 93 69, 60 48, 00 48, 00 45, 83 70, 25 45, 83 70, 25 66, 63 66, 60 67, 64 75, 64 76, 64 76, 64 76, 00 27, 55 36, 60 36, 60	1, 19 2, 98 1, 79 1, 19 2, 38 8, 93 2, 98 4, 76 2, 98 5, 36 2, 98 5, 36 2, 98 5, 36 1, 19 2, 19 2, 19 3, 30 1, 19 5, 36 5, 36 5, 36 5, 36 1, 79 1, 19
Total	168	119	49	331	419	9,512	60, 59	100,00

One not returned to work.
Five not returned to work.



				200	Disposi	tion of ou	ıtput.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
	SHIPPING MINES.							
2 3 4 5 6	Peabody Coal Co., No. 7. Peabody Coal Co., No. 8. Peabody Coal Co., No. 21. Spild. Dist. c. M. Co., No. 8. Smith I Coal Mining Co. Smith Lohr Coal Mining Co. Sman Coal Co., No. 1. Assumption Coal & Mining Co. Greenwood Coal & Mining Co.	Stonington Taylorville Panadodo	282,521 271,687 123,005	121,612 228,897 232,311	3,689 23,935	286,258 144,685	3,914 3,417 9,049 33,742 16,886 10,285 1,348 10,429 7,538	1,845 1,712 9,666 12,126 12,803 29,091 3,113 6,482 1,100
	Total—9 mines		2,822,167	2,070,510	27,624	549,487	96,608	77,938

Mines in 1916, 8. New mines, 1. Mines in 1917, 9.

#### MACON COUNTY,

SHIPPING MINES.  1 Mfgs. & Consumers Coal Co De 2 Decatur Coal Co., No. 2 Ni Niantic Mining Co Ni	.do	21,940	101,1	98 9,371 47 3,650 02 409
Total—3 mines	259,004	95,427	150,1	13,430

Mines in 1916; 2. New mines, 1. Mines in 1917, 3.

## MOULTRIE COUNTY,

=					 		
	SHIPPING MINES.						
1	Lovington C. M. Co., No. 1	Lovington	239,818	224,517	 	6,183	9,118

Mines in 1916, 1. Mines in 1917,1.

#### SHELBY COUNTY,

SHIPPING MINES.						
1 Moweaqua Coal Mining & Mfg. Co., No. 1 2 Tower Hill Coal Co., No. 1	Moweaqua Tower Hill	83,908 5,124		 	11,281 346	6,542 - 1,267
Total		89,032	69,596	 	11,627	7,809
LOCAL MINES.						
1 Wm. Baum Coal Co., No. 4 2 Wm. Baum Coal Co., No. 6 3 John O'Brein 4 A. W. Smith.	do	1.300		 	2,000 2,200 1,300 800	300
Total		6,650		 	6,300	350
Total—6 mines		95,682	69,596	 	17,927	8,159

# FIFTH DISTRICT, 1917.

ed for	ble ex-	Insp tion	pec- ns	ation		Tons	mined.	number	Ae de	eci- nts.	in use.	under-	l	coal wash other sp reparing	ecial	
Kegs of powder used for blasting.	Pounds of permissible explosives used,	State inspector.	County inspector.	Days of active operation	Total employees.	By hand.	By machine.	Mining machines—number in use.	Killed.	Injured.	Number of motors in use.	Number of animals under- ground.	Number in use.	Average daily capacity.	Tons prepared dur- in the year.	Number.
8,888 8,386 3,021 12,926 3,030 2,645 1,200 108 581 40,786	1,675	2 1 1 1 2 1 2 	2 2 4 2 3 3 3 3 2 21	246 252 271 188 198 256 161 241 187	562 411 372 315 279 316 300 148 17 2,750	315,854 282,521 271,687 123,005 35,788 11,638	34,382	29 41 13  3  86	2	1 15 10 8 6 9	10 10 3 2 3 2 2 2 2 2	3	1 	1,000	151,575	1 2 3 4 5 6 7 8 9
			× 0.00		01.2			-								_
F16.1	II DI	STR	ICT	, 1	917.									1		
337	200	2 1 1	2 2 2	282 200 41	233 169 60	180,105 73,937 4,962			···i	5 5		29 30 5				1 2 3
337	200	4	6	174	462	259,004			1	10		6-1				
FIFT	'H DI	STR	ICT	, 1	917.											
				-												
1,545		2		258	200	239,818				5	1	16				1
FIFT	II DI	STR	ICT	, 1	917.											_
-		-	1	-				Ī								_
1,325 91		1 1	1	173 100	108 71	5,124	83,908	8		5	1	8 8				1 2
1,416		2	2	137	179	5,124	83,908	8		5	1	16				
			1 1 1 1	300 200 150 185	12 11 7 6	2,300 2,200 1,300 850										1 2 3 4
1,416		2	4	209	36 215	6,650	83,908	8		5	<u>-</u>	16				
		l l														

## VERMILION COUNTY,

-				_				
					Disposi	tion of o	utput.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
	SHIPPING MINES.							
6 7 8 9 10 11	Missionfield Coal Co., No. 2 Two Rivers Coal Co., No. 4 Missionfield Coal Co., No. 3 Carbon Hill Coal Co., No. 5 Sharon Coal & Brick Co., No. 1 Danville Collieries Co United States F. Co., Bunsen.	.do	877,920 739,937 431,979 305,820 169,268 159,373 143,855 143,439 66,578 51,988 29,796 16,448 650 3,137,051	721,840 425,937 5,620 66,688 109,992 57,542 140,000 52,580 42,795 28,040 16,448 650		5,382 281,732 101,560 47,811 86,313	11,868 578 126	10,325 5,399 7,150 1,570 1,680 2,130 5,220 1,630
2 3 4 4 5 6 6 9 8 8 9 10 11 12 13 14 15 16 17 18 19	W. F. Crawford Lloyd Hawkins P. J. Ogden & Son Frank Holmgren	.do	18,481 10,965 9,900 8,000 4,850 4,500 2,500 2,250 1,250 1,255 1,055 3,529 1,055 1,05	*			83,539 18,000 10,965 9,900 7,790 4,800 4,400 3,572 3,129 2,800 2,237 1,800 1,550 575 350 91 160,998	210 50 100 300 40 100 25 14 1,370
	Total—33 mines		3,299,419	2,177,762	1,020	876,580	194,871	49,186

Mines in 1916, 37. New mines, 9. Abandoned mines, 13. Mines in 1917, 33.

# FIFTH DISTRICT, 1917.

1 101	ole ex-	Insp tio by	ns	tion.		Tons r	nined.	unnber	Ac	ci- its.	n use.	under-		oal wash other spe eparing	cial
Kegs of powder used for blasting.	Pounds of permissible explosives used.	State inspector.	County inspector.	Days of active operation.	Total employees.	By hand.	Ду machine.	Mining machines—number in use.	Killed.	Injured.	Number of motors in use.	Number of animals under- ground.	Number in use.	Average daily eapacity.	Tons prepared during the year.
20,241 17,066 3,229 5,180 4,200 1,200 3,600 270 2,485 2,636 1,509				263 261 263 205 276 263 278 240 265 290 155 54 35	793 748 366 362 150 78 135 65 93 100 93 43	251,974 739,937 211,046 55,767 16,000 159,373 28,700 143,439 66,578 51,988 29,796 16,448	115,255	8 11 4		39 17 10 9 3 4 1	4 4 3 2 1 1				
81,646		12		219	3,039	1,771,046	1,366,005		4	86	16	152			
2,400 281 425 400 100 153 165 100 125 70 84 37 30		2		300 260 275 180 175 200 240 220 235 70 200 125 200 160 190	62 12 17 13 9 12 6 6 12 3 3 6 8 8 4	\$3,589 10,965 9,900 8,000 4,530 4,500 3,572 3,429 2,500 2,500 1,550 1,225 1,050	18,481			23					
35 15 21 19				130 250 100 82	3 2 1	750 575 350 105									
4,460		- 8		191	193	143,887	18,481	1	2	5					

## SHIPPING MINES, RECAPITULATION BY

					Dispos	sition of ou	tput.		d for	ble ex-
Number.	Counties.	Number of mines.	Total output.	Tons loaded on ears for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Sold to local trade.	Consumed or wasted at the mine.	Kegs of powder used blasting.	Pounds of permissible ex- plosives used.
2 3 4	Christian Maeon Moultrie Shelby Vermilion Total Total	9 3 1 2 13 28	2,822,167 259,004 239,818 89,032 3,137,051 6,547,072	2,070,510 95,427 224,517 69,596 2,177,762 4,637,812		876,580	96,608 150,147 6,183 11,627 33,873 298,438	77,938 13,430 9,118 7,809 47,816 156,111	1,545 1,416 81,646	

#### LOCAL MINES, RECAPITULATION BY

1 Sh 2 Ve	nelbyermilion	4 20	$^{6,650}_{162,368}$				6,300 160,998	350 1,370	4,460	<b>:</b>
	Total	24	169,018				167,298	1,720	4,460	
	The district	52	6,716,090	4,637,812	28,644	1,426,067	465,736	157,831	130,190	1,875

## ALL MINES, RECAPITULATION BY

=					 				
2	Christian Mason		2,822,167 259,004	95,427	 	150,147	13,430	337	
4	Moultrie	6	239,818 95,682 3,299,419	69,596	 876,580	6,183 17,927	8,159	1,416	
J	Total		6,716,090		 1,426,067				

Whole number of mines reported for 1916, 53. Number of new and reopened mines during the year, 13. Number of mines abandoned during the year, 14. Whole number of mines reported for 1917, 52.

# COUNTIES, FIFTH DISTRICT, 1917.

ation.		Tons	nined.	°Se	Accid	ents.		nd.	Coal w	ashers or ial prepa plant.	other	
Days of active operation.	Total employees.	By hand.	By machine.	Number of machines.	Killed.	Injured.	Number of motors.	Animals underground	Number in use.	Average daily capacity.	Tons prepared during the year.	Number.
222 174 258 137 219	2,750 462 200 179 3,039 6,630	259,004 239,818 5,124 1,771,046	83,908	86 50 144	1 4	57 10 5 5 86 163	34 1 1 16 52	113 64 16 16 152 361	1	1,000	151,575	1 2 3 4 5

# COUNTIES, FIFTH DISTRICT, 1917.

209 191 194	229	150,537		1	2	5				2
203	6,859	3,466,022	3,250,068	145	16	168	52	 	 	

# COUNTIES, FIFTH DISTRICT, 1917.

222	9.750	1 040 402	1,781,674	86	0	57	34	113		
174	462	259,004			1	10		64		
258 183	200 215	239,818 11,774	83,908	8		5	1	16 16		
201	3,232	1,914,933	1,384,486	51	6	91	16	152	 	
203	6,859	3,466,022	3,250,068	145	16	168	52	361	 	

# SIXTH INSPECTION DISTRICT.

COUNTIES-LOGAN, MCLEAN AND SANGAMON. ROBERT REAVLEY, Inspector.

Hon. Evan D. John, Director, Department of Mines and Minerals, Springfield.

SIR: I have the honor to submit to you the annual report of this, the Sixth District, comprising the coal producing counties of Logan, McLean and Sangamon.

#### SUMMARY OF THE ITEMS IN THE REPORT.

Number of counties producing coal	3
Number of shipping mines	31
Number of local mines	3
Number of new or reopened mines	4
Number of closed or abandoned mines	1
	6,809
Number of boys underground	178
Number of boys outside the mine	7
Number of men outside the mine	607
	7,601
Total tons of coal produced	4,571
Days of active operation, all mines	231
	8,035
Number of fatal accidents	16
Number of nonfatal accidents	119
Number of employees to each fatal accident	475
Number of employees to each nonfatal accident	64
Tons of coal produced to each fatal accident	7,161
	4,156
Ratio of fatal accidents per 1,000 employees	2.1
The following table gives by counties the output the days worked	and

The following table gives, by counties, the output, the days worked and the number of men employed, 1917 and 1916, with the increase or decrease in each:

	1	1917		1	916		Incre	Decrease.				
County.	Output- tons.	Days worked.	Men em- ployed.	Output- tons.	Days worked.	Men em- ployed.	Tons.	Tons. Days. Men.		Tons.	Days.	Men.
Logan	596,511 89,412 6,948,648	239	673 166 6,762	83,775	174 254 170	183	195,051 5,637 2,078,667				15	17
Total and average Net	7,634,571	231	7,601	5,355,216	179	7,561	2,279,355	52	57 40			17

#### NEW MINES.

The following mines have been reopened:

Citizens Coal Mining Co. "A," Springfield; Athens-Dawson Coal Co., Dawson; Cantrall Coal Co., Cantrall; Sangamon County Mining Company, Springfield.

One mine, Williamson and Denny, Barclay, has been abandoned.

#### FATAL ACCIDENTS.

September 7, 1916, Fred Deifenback, shot firer, age 52 years, married, was killed by a shot explosion in the West End Coal Company's mine, Springfield, Sangamon County. He leaves a widow and four children.

October 25, 1916, John Schiebner, operator, age 72 years, single, was killed by a coal conveyor, in Springfield Cooperative Coal Company's mine, Springfield, Sangamon County.

November 12, 1916, John Yost, miner, age 51 years, married, was killed by a shot explosion in Wilcoxen Coal Company's mine, Springfield, San-

gamon County. He leaves a widow and four children.

November 16, 1916, John Taylor, shot firer, age 43 years, married, employed by the Lincoln Mining Company, Lincoln, Logan County, was

killed by flying coal. He leaves a widow and four children.

December 8, 1916, Charles Pattecabbage, miner, age 68 years, married, was killed by falling slate in Springfield District Coal Mining Company's No. 4 mine, Auburn, Sangamon County. He leaves a widow and five children.

December 12, 1916, John Slekas, driver, age 30 years, married, was killed by pit cars in Madison Coal Corporation's No. 6 mine, Divernon,

Sangamon County. He leaves a widow.

January 8, 1917, Andrew Gerowitch, laborer, age 18 years, single, was killed by a motor, in mine No. 3 Springfield District Coal Company, Springfield, Sangamon County. Deceased was riding on front end of motor and jumped off to turn the switch; he fell in front of the motor and was crushed to death.

January 21, 1917, George Young, shot firer, age 41 years, married, and Frank Young, his brother, shot firer, age 44 years, married, employees of the Springfield District Coal Company at mine No. 7, Springfield, Sangamon County, died from injuries received the previous day. The brothers fired three "dead holes" in the main east entry, causing an explosion which resulted in their death. George leaves a widow and Frank leaves a widow and one child.

January 27, 1917, Albert Steinberg, driver, age 17 years, single, was killed by pit cars in Jones and Adams Coal Company's mine, Springfield,

Sangamon County.

March 31, 1917, James Arthur, miner, age 65 years, married, employed in Lincoln Coal Mining Company's mine, Lincoln, Logan County, was walking out after his days work was done and stepped out of the way of an empty trip and in front of loaded cars, which knocked him down, causing his death. He leaves a widow and three children.

May 9, 1917, John Krause, timberman, age 46 years, married, was killed by falling slate in Lincoln Mining Company's mine, Lincoln, Logan County.

He leaves a widow and five children.

May 12, 1917, Charles Poffenbach, cager, age 32 years, married, was killed in Springfield District Coal Mining Company's No. 5 mine, Springfield, Sangamon County. Deceased was putting a car of coal on the cage when a piece of coal fell down the shaft, striking him on the head crushing his skull. He leaves a widow and one child.

May 20, 1917, Herbert Hunt, timberman, age 40 years, married, was killed by a falling prop in Wilcoxen Coal & Coke Company's mine, Spring-

field, Sangamon County.

May 22, 1917, William W. Scott, laborer, age 67 years, married, was killed at Cantrall Coal Company's mine, Cantrall, Sangamon County. Deceased was helping push a car of dirt on tram road to dirt dump. The

boards were slippery from the recent rain and in trying to check the car his feet slipped and he fell about 25 feet to the ground. He leaves a widow and four children, two-dependents.

June 30, 1917, Charles Mowry, driver, age 30 years, single, was crushed between side of cage and timbers while being hoisted out of the Latham Mining Company's mine, Lincoln, Logan County. He leaves one dependent.

Respectfully submitted,

ROBERT REAVLEY,
Inspector, Riverton, Illinois.

#### FATAL CASUALTIES, SIXTH DISTRICT, JUNE 30, 1917.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
Oct. 25 Nov. 12 Dec. 8 1917 Jan. 8 21 27	Fred Deifenback John Schiebner John Yost John Tyot John Tyot John Taylor Chas. Patteeabbage John Elekas Andrew Gerowitch George Young Frank Young Albert Steinberg James Arthur John Kraus Charles Poffenbach Herbert Hunt William W. Seott Charles Mowry Total	72 51 43 68 30 18 41 44 17 65 46 32 40 67 30	Operator Miner Shot firer Miner Driver Laborer Shot firer do Driver Laborer Timberman Cager Timberman Laborer Driver Laborer Timberman Laborer Driver	do do Lincoln Auburn Divernon Springfield do do do Lincoln Springfield Cado do Cado Lincoln Cantrall Lincoln	111111111111111111111111111111111111111	1 1 1	111111111111111111111111111111111111111	1 3 5 1 3 4	5 5 3 1 1 2 2	Coal conveyor. Shot explosion. Flying coal. Flying coal. Falling slate. Pit car. Shot explosion. Shot explosion. Float F

## RECAPITULATION OF FATAL ACCIDENTS, SIXTH DISTRICT, 1917.

. Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No
Anburn Cantrall Divernon Lincoln Springfield	1 1 4	Cager Drivers Laborers Miners Operator Shot firers Timbermen	3 2 3 1 4 2	Cage Coal conveyor. Coal fell down shaft Falling prop. Falling slate Fell off tram road. Flying coal Pit cars. Motor. Shot explosion.	1 1 1 2 1	Cantral Coal Co	1 1 3 1 1 1 5
Total	16		16		16		16

# NONFATAL CASUALTIES, SIXTH DISTRICT, JUNE 30, 1917.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents	Character of injury and cause of accident.	Time lest
1916									
fuly 16	Peter Cromm, Sr. Thomas Emerson Frank Temple Morris Cromm Harry Dunham A. Sylvester Fred Fraeger John Piontch Alex Galant Louis DeBattista. Wm. Leggett J. J. Durkin J. Butler J. Stanfil. Saute DuBattiste	55	Lincoln	1			I	Body burned, gas explosion	
16	Frank Temple	19	Virden	l i		4	5	Leg injured, cage Body injured, falling coal	
16	Morris Cromm	24	Lincoln		1			Body burned, gas explosion Pelvis broken, not stated Head injured, pit car	
lug. 11	Harry Dunham	28	Springfield		1			Pelvis broken, not stated	
20	A. Sylvester	32	Riverton	1		ő	6	Head injured, pit car	
21	I cho Piontoh	18	Lincoln	l-;	1	12		Ankle broken, pit car	
31	Alex Galant	16	Springfield	l î		6		Ankle broken, pit car Baek injured, falling eoal Arm broken, falling slate. Eye injured, foreign substance. Head injured, falling coal	
ept 2	Louis DeBattista	28	Sherman	l	1			Eve injured, foreign substance	
5	Wm. Leggett	30	Divernon		1			Head injured, falling coal	
6	J. J. Durkin	46	Springfield	1		9	6	mand injured, miring coar	
10	J. Butter	20	Enringfield	1		3	1	Foot injured, not stated Wrist broken, falling coal	
21	Saute DuBattiste	23	Sherman	1	1		-1	Eveinjured, foreign substance	
21	J. S. Feccho	50	Virden	1			1	Foot broken, falling rail	
25	J. Stanni. Saute DuBattiste. J. S. Feccho. Frank McGlennon. Robert Dawson. J. F. Baugh. Ted Sconutis. P. Gilmore, Jr. Martin Kodrich.	29	Springfield		1			Hand injured not stated	
et. 29	Robert Dawson	56	Virden	1		···;	1	Leg broken, falling coal leg broken, falling rock Body injured, falling slate. Foot broken, pit car	
10	Ted Scountis	31	Springfield	1	i		2	Rody injured fulling slate	
10	P. Gilmore, Jr	30	do	1	î			Foot broken, pit car	
19	Martin Kodrich	35	do		1			Head injured, fairing state	
21	Geo. Birnbaum	35	do	٠.	1			Leg injured, lifting coal	
ov. 24	Too Burger	23	do	1	- i	4	5	Foot injured, falling rock Foot injured, not stated	
S S	A Vesno	33	Riverton	i	1		5	Eye injured, foreign substance	
14	M. Mariana	31	Springfield	1		5	6	Rody injured falling slate	
14	B. Parish	20	Virden		1			Finger cut off, sprag Body injured, falling coal Leg injured, falling slate	ľ
15	Albert Ketchum	67	Springfield		1			Body injured, falling coal	
10	Tony Maske	42	do	1		4	5	Leg injured, falling slate	
ec. 2	Per Glimore, Ir. Machin Kodrich Machin Kodrich Machin Kodrich Machin Kodrich Prank Sikius Joe Burcar A. Vespa. M. Mariana B. Parish Albert Ketchum Tony Maske Adolph Gaimard Pete Prehoda Leo Weaver Alex Taylor Frank Shomide E. Giganti John Promisson Terry Ford. Wim Gurshi Dan McGill. Victor Mathias L. N. Spainhower.	30	Springfield	1		I	5	Body injured, falling coal Ankle injured, lifting car	
8	Leo Weaver	20	do		i			Body injured, lifting weight	
8	Alex Taylor	50	do		1			Finger cut off, pit car	
9	Frank Shomide	55	do	1		2	3	Body injured, falling slate	
9	Lohn Promisson	40	do	1	- ;	6	7	Leg injured, falling eoal	
11	Terry Ford	20	do		î			Finger broken, pit car	
12	Wm. Gurshi	30	do	i			i	Hand broken, pit car Finger broken, pit car Body injured, pit car Rib broken, kicked by mule	
13	Dan McGill	21	do		1			Rib broken, kicked by mule	
I6	Vietor Mathias	42	Virden	1		5	6	ringer broken, machine	
21	I. N. Spainhower John Stonchus	02	do	1	i	1	1	Foot injured, falling rock Body injured, not stated	
	T. Pickritis		Riverton			6	7	Leg injured, falling coal	
1917									
an. 4	Charles Jacobs	25	Lincoln	٠.	1		····i	Foot injured, falling slate	
4.6	Ctoro Lunioh	25	Chrinafield	1			1	Arm broken, pit car	
S	Charles Jacobs Lawrence Jones Steve Lunich Wm. Wasmith R. Klein, Jr	67	do	1	i			Arm broken, pit car. Finger cut off, not stated. Eye destroyed, not stated	
9	R. Klein, Jr	25	Divernon		1				
12	James Cole	25	Auburn		1			Finger cut off, pit car	
13	R. Klein, Jr James Cole J. Jacobs Riehard Drennan Joe Sanks Fred Rathbone Ed Akiness	26	Riverton	٠.	1		3	Finger cut off, pit car Leg injured, pit car Eye injured, flying coal Foot injured, pit car Finger cut off, pit car Finger bedon, pit car	
16	Loo Sanks	90	Auburn	1	i		3	Foot injured, nying coar	
20	Fred Rathbone	26	do	11	î			Finger cut off, pit car	
24	Ed. Akiness	45	Virden		1			Finger broken, pit car	
26	John Keelcy	29	Springfield		1			Arm injured, kicked by mule	
27	John Edwards	21	Divernon		1			Fingers cut off, pit car Back injured, falling slate	
eb. 1	James Herron	24	do do		1			Body injured, pit car	
3	Gabe Ford	62	do	1			 i	do	
6	Therren Marshall	16	West Frankfort	. :	1			Finger, injured, pit car Foot injured, falling slate	
6	George Kaloski	45	Lincoln	1	٠.		1	Foot injured, falling slate	
10	Simon Kelley	40	Springfield	1	· i		1	do	
18	C. Gaut.	20	Riverton		1			Foot injured, pit car	
19	P. Camille	35	do	1		5	6	Shoulder injured, falling slate	
19	Frank Howard	33	Springfield	1		4	ā	Arm injured, lifting Weight	
20	Fred Rathbone Ed. Akiness John Keeley John Edwards Louis Daravac James Herron Gabe Ford Therren Marshall George Kaloski John Yachaback Simon Kelley C. Gaut P. Camille Frank Howard F. Beekman Wm. Swires George Roy	40	Director	1		2	3	Back injured, pit car	

# NONFATAL CASUALTIES, SIXTH DISTRICT, JUNE 30, 1917—concluded.

Date,	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents	Character of injury and cause of accident.	Time lost-
1917									
eb. 24	James Dacey	18	Springfield	ļ.,	1			Back injured, not stated	
26	Wm. Clouser	50	do	1		3	4	Shoulder injured, pit car	١.
ar. 1	Mike Barra, Jr	18	Thayer	1- :	1		:	Leg broken, pit car	1
ű e	F. Accordi	30	Springheid	1	-:		1	Body injured, not stated	
10	Wm. Bohles	95	Springfield		1			Leg injured, falling slate Finger cut off, not stated	
10	Nathon Watson	18	do do	i	1	2	2	Ankle injured, not stated	
11	R. Young	26	Riverton	Ιi		2	3	Back injured, lifting car	1
12	C. J. Lemasters	32	Springfield	Î		3	4	Body injured, falling slate	î
14	Joe Polack Frank Guriski	29	Thaver	l	1			Fingers broken, sprag	1
14	Frank Guriski	59	Divernon	1		4	5	Leg broken, falling rock	
23	Wesley Snelson	35	Springfield	1				Finger injured, setting prop	
30			do			2		Shoulders injured, not stated	
pr. 6	Archie Allen	50	do	1		;	1		
9	Joe Castigna	00	Thayer	1		1		Back injured, falling slate	
10	T. Trespenskey	10	Springfield	1			1	Body burned, gas explosion Collar bone broken, falling slate	
13	Aug. Dubois	40	Auburn	*	i		1	Back injured, falling coal	
13	Tony Myers	34	Springfield		Ιî			Hand injured, pit car	
14	John Watts	45	Divernon	1	l î			Leg injured, falling slate	
20	L. Donado	l	Springfield	١	l î			Leg injured, not stated	
21	John Zgaga	37	do	1	1	4	5	Back injured, falling slate	
26	Tony Petrovich	24	Divernon	١	1			Pelvis broken, pit car	1
28		42	Pawnee	1		3	4		
28	Richard Flaherty	34	do	1		2	3		1
lay 1	John Skaisger Otto Hedrick	39	Divernou Springfield			3	1	Body injured, lifting weight Body injured, railroad ears	
2	George Arnet	20	Colfax			6		Hand injured, falling coal	
4	Joe Logan	38	Springfield	î		2		Body injured, lifting weight	
11	Tony Butkis	40	Auburn	1	1			Foot broken, pit car	1
12	T. H DeGroat	25	Cantrall	1	ĺ.,		1		
16	Frank Papkas	43	Springfield	1		5	6	Hand injured, falling slate	1
18	Charles Bohn	29	Springfield	1 1			1	Toe injured, stepped on nail	1
18	G. Murray	72	Riverton	1		:	1		1
23	Louis Gallasi James Wilson	43	Springheld	1	1:	9	6	Leg broken, falling coal	
20	James Wilson Mat Bretz. Thos. Linac	49	Springfield		1			Finger injured, mule	
31	Thos. Linac	43	. do	1	1	5	6	Head injured, fell off car	
ine 4	James Latin	124	do	١	1			Wrist broken, not stated	
6	Harry Hahee	128	do	l.,	1 1			Toe injured, falling slate	1
6	G. Ketinchki Thomas Monahan	35	Lincoln		1			Leg injured, pit car	1
7	Thomas Monahan	39	Springfield	1		1	2	Leg broken, not stated	
9	August Werner	136	do	1		2	3	Body injured, falling slate	
12	Tony Pupkas	42		-:	1			Wrist broken, not stated	
18	Mike Horton Frank Sininella	50		1	i		1	Eye injured, flying coal Leg injured, pit car	
27	Oscar Charles	30	Auburn	1	1			Leg broken, kicked by mule	
	Walter Larus	16	Pawnee		i		1	Leg broken pit car	1
30	S. Kawala	38	Auburn	i	1.	3	4	Shoulder injured, falling slate	
30	1	1		-	_			and it can remain state and	1
	Total			63	56	157	208		1
	1	1		1	1				ł

* Not returned to work June 30, 1917. Number injured. Number not returned.	119 21	Time lost by men returned, days. 5 Average days lost	
_			
Number returned	98		

# RECAPITULATION OF NONFATAL ACCIDENTS, SIXTH DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Auburn antrall olfax, olfax, Dawson, Divernon, Lincoln Pawnee Riverton, Sherman, Springfield Thayer, Virden, West Frankfort,	7 1 1 1 10 10 3 8 2 64 5 6 1	Cagers Couplets Couplets Drivers Laborers Laborers Laborers Machine runners Machine runners Motormen Trimber men Trackmen. Tripiders	51 2 6	Cage Cage Falling coal Falling rock Falling rock Falling state Fell off car Flying coal Gas explosion Kicked by mule Lifting objects Machine Pit cars Railroad cars Struck by objects Not stated	16 4 21 1 2 3 4 8 1 30 1 8	Athens-Dawson C. Co. Auburn & Ahon C. Co. Chi-sprinefield C. Co. C. W. & F. Coal Co. Cittizens C. W. Co. Cittizens C. W. Co. Cittizens Coal Co. Cittizens Coal Co. Cittizens Coal Co. Colfax Co-op Coal Co. Jones & Adams C. Co. Latham C. W. Co. Lincoln Mining Co. Madison Coal Corp. Montour Coal Co. Number Twelve C. Co. Peabody Coal Co. Springfield Co-op. C. Co. Springfield D. C. M. Co. Tuxhora Coal Co. West End Coal Co.	1 1 1 1 2
Total	119		119		119		11

RECAPITULATION OF NONFATAL CASUALTIES, NATURE OF INJURIES, CON-JUGAL RELATIONS, AND TIME LOST, SIXTH DISTRICT, JUNE 30, 1917.

	ŗ.			i.	lents.	Time los	t—days.	tage uries.
Nature of injuries.	Number.	Married	Single.	Children	Dependents.	Total.	Aver- age.	Percentage of injuries.
Ankle broken 1 Ankle injured Ankle injured Arm broken Arm injured Back injured 2 Body burned Body injured 1 Collar bone broken Eye destroyed Eye destroyed Eye injured 1 Eye injured 1 Foot broken 1 Foot injured Hand injured Hand injured Hand injured Leg broken 4 Eye injured 7 Eye injured 8 Eye injured 9 Eye injured 9 Eye injured 9 Eye injured 1 Eye injured 3 Eye injured 3 Eye injured 4 Eye injured 4 Eye injured 4 Eye injured 5 Eye injured 7 Eye injured 7 Eye injured 1 Eye injured 4 Eye injured 5 Eye injured 6 Eye in	1 2 2 2 11 3 18 1 1 5 5 3 7 4 3 11 1 6 6 4 9 11 1 2 1 4 1 1 3 3 3	2 18 2 12 12 11 1 1 7 3 2 6 4 4 1 1	1 3 1 6 1 2 2 6 4 4 1 3 3 2 3 3 7 7 2 1 1	3 6 4 4 26 25 25 25 20 10 11 20	4 8 5 28 28 2 37 1 1	104 96 77 466 185 1,035 80 50 50 50 50 50 50 50 77 279 144 331 313 180 190 190 190 190 190 190 190 190 190 19	52, 00 48, 00 38, 50 60, 57 61, 67 61, 88 80, 00 41, 00 43, 67 57, 20 37, 00 122, 50 47, 27 37, 00 140, 60 82, 75 54, 29 82, 75 84, 29 84, 20 84, 20	. 84 1. 68 1. 68 1. 68 9. 25 2. 52 15. 13 84 4. 20 2. 52 5. 58 8. 3. 36 3. 7. 56 9. 27 9. 27 9. 22 84 84 84 85 86 87 88 88 88 88 88 88 88 88 88 88 88 88
Total	119	63	56	157	208	5,636	57. 51	100.00

One not returned.
 Four not returned.
 Two not returned.
 Five not returned.

## LOGAN COUNTY,

					Disposition of output.						
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
2	SHIPPING MINES. Latham Coal & Mining Co Citizens Coal Mining Co Lincoln Mining Co., No. 1. Total—3 mines	do	177.849	226,887 116,597 131,754 475,238	23,668		23,055 23,708 23,470 70,233	6,700 13,876 6,796 27,372			

Mines in 1916, 3. Mines in 1917, 3.

# M'LEAN COUNTY,

SHIIPING MINES.						
1 McLean County Coal Co 2 Colfax Coal Co	Bloomington.	77,083 12,329	3,000	10,565	 55,260 1,670	8,258 1,346
Total—2 mines					 	
Total 2 mines		09,412	12,313	10,303	 30,930	9,004

Mines in 1916, 2. Mines in 1917, 2.

# SANGAMON COUNTY,

SH	UPPING MINES.							
-	millio biliboi							
1 Madison	Coal Corp., No. 6	Divernon	726,319			703,921	5,630	16,768
2 C., W. &	F. Coal Co., No. 1.	Thayer	676,980	360,036		295,120	5,472	16,352
3 Springfi	eld Dist. Coal Min-							
ing Co	, No. 2	Riverton	500,517	176,678		307,568		10,675
4 Springh	eld D. C. M. Co., No.4	Auburn	454,700			211,328	2,397	7,818
5 Jones &	Adams, Peerless	Springfield	450,455	334,914	1,540	100,881		13,120
6 Peabody	Coal Co., No. 6	Sherman	429,721	424,632			56	5,033
7 Chicago	& Springfield Coal	C1	347.523	0.40, 000				1,200
e Wilcoxe	. S	Springueid		340,323		62,685	5,500	7,300
o Springfi	eld Dist. Coal Min-		550,559	204,804		02,085	5,500	7,000
ing Co	., No. 5	do	320.295	151 033		158,975	3,483	6.804
10 Springfi	eld D C. M. Co., No.3	do	296,983					5,463
11 West E	nd Coal Co., W. S	do	283,673	238 026		102,010		6,396
12 Citizens	C M. Co., B	do	235,947	174,100		48,668	8,251	4,928
13 Montou	C M. Co., B r Coal Co , No. 400	do	219,513					7,383
14 Peabod	v Coal Co., No. 5	Pawnee	213.612		2,901		3,833	3,959
15 Springfi	eld Dist. Coal Min- o., No. 7			/	i '	· ·		
ing Co	o., No. 7	Springfield	213,201	110,932		43,354	52,305	6,610
16 Springfi	eld Dist, Coal Min-				1			
ing Co	o., No. 1	do	197,698	132,519		60,237	197	4,745
17 Springfi	eld Co-op. Coal Co	do	191,800	87,440		58,160	36,900	9,300
	n Coal Co		180,711	147,336		28,316	1,938	3,121
	& Alton Coal Co		176,770	166,458			7,312	3,000
20 Spring C	Creek Coal Co	Springheld	143,463	138,962			709	3,792
	Park C, & B. Co		98,846				53,677	4,993
22 Sangam	on Co. Mining Co C. M. Co., A	do	84,313 60,458	84,313		13,167	613	1,508
24 Athons	Dawson Coal Co	Dawson	58,507	59 099		15,107	2,785	2,800
25 Cantrall	Coal Co	Cantrall	25,082				340	2,500
	12 Coal Co		20,657	3 500			16,157	1,000
20 1 dilibe	AM COM CO	-pringhera	20,001	0,000				
Tota	al		6.938.083	4,145,708	4.441	2,345,030	286,276	156,628
1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-,	,,	,=	

# SIXTH DISTRICT, 1917.

ed for	ble ex-	tic	pec-	operation.		Tons 1	nined.	-number		ci- its.	in use.	s under-	C pe	oal wash other spe erparing	eial plant.	
	Pounds of permissible plosive used.	State inspector.	County inspector.	Days of active oper	Total employees.	By haud.	By machine.	Mining machines—in use.	Killed.	Injured.	Number of motors	Number of animals ground.	Number in use.	Average daily eapacity.	Tons prepared during the year.	Number.
16,080 8,835 7,514 32,429		2 2 1 5		268 263 217 249	343 159 171 673	256,642 177,849 162,020 596,511			1 3 4	6 1 3	44	20 14 17 51				1 2 3

# SIXTH DISTRICT, 1917.

		1				1						
	}											
į.	1											
			000	*0-	77 000				1.5			- 1
	.) 1		236	199	77,083	 			 19			 1
310	. 1		191	31	12,329	 		1	 5			 2
		-				 			 			
210	1 0		020	100	20 419			- 1	20			Į.
510	-1 4		209	100	89,412	 		1	 20			
-							i .			1	į.	i.

# SIXTH DISTRICT, 1917.

	1												
7,722		2	 237	513		726,319	14		10	3			
8,040		2	 262	508		676,980	14		10	7	36	 	
6,966			 249	494	500,517				8	2 3	32	 	
2,477		3	 256	373					6	3	22	 	
4,078		3	 240	414					8	3	33	 	
3,662		1	 237	437	429,721				7	3	26	 	
306		4	 255	292	347,523				11	1			
7,847		2	 279	328	330,339			2		2			
6,751		3	 254	302	320,295			1	6	2	22	 	
4,603		2	 223	293	296,983			1	1	3			
3,926		2	 254	279	283,673			1	1	3	12	 	
1,702		2	 251	228	235,947				7	2		 	
0,526		2	 258	204	219,513				3				
9,572	105	1	 154	300	213,612				4	2	20	 	
2,349		2	 243	206	213,201			2	3	2	17	 	
9,734		2	 202	186	197,698			l	4	١			
9,477		3	 259	192	191,800			1	6	- 1	12	 	
,463		3	 205	213	180,711				3		18	 	
3,783				186	176,770				2	1	21		
7,174		2	 271	147									
5,186		3	 250	96									
4,883		1	 125	175						1	12		
3,266				135					3		9	 	
3,458		4	 189	100							15	 	
1,545		1	 94	96							11		
1,235		3	 193	42	20,657				1	• • • •		 	
4 731	155	60	 224	6.739	5.534.784	1,403,299	28	12	108	44	534	 l	

#### SANGAMON COUNTY,

				Dispos	ition of out	put.	
Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rall- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
LOCAL MINES.  1 Citizens Coal Co	Pleasant P .do. Farmingdale.					5,995 2,495 1,775	300
Total—29 mines		6,948,648	4,145,708	4,441	2,345,030	10,265 296,541	300 156,928

Mines in 1916, 26. New mines, 4. Abandoned mines, 1. Mines in 1917, 29.

#### SHIPPING MINES, RECAPITULATION BY

					Dispos	ition of out	put.		d for	ple ex-
Number.	Counties.	Number of mines.	Total output.	Tons loaded on cars for ship- ment.	Ton supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Sold to local trade.	Consumed or wa od at the mine.	Kegs of powder used blasting.	Pounds of permissible ex- plosives used.
2	Logan McLean Sangamon	3 2 23	596,511 89,412 6,938,083	475,238 12,313 4,145,708	23,668 10,555 4,441	2,345,030	70,233 56,930 283,276	27,372 9,604 156,628	32,429 310 304,731	155
	Total	31	7,624,006	4,633,259	38,674	2,345,030	413,439	193,604	337,470	155

## LOCAL MINES, RECAPITULATION BY

-										
1	Sangamon	3	10,565				10,265	300	565	
	Total	3	10,565				10,235	300	565	
	The district.	34	7,634,571	4,633,259	38,674	2,345,030	423,704	193,904	338,035	155

## ALL MINES, RECAPITULATION BY

2	Logan McLean Sangamon	2	596,511 8),412 6,948,648	12.313	10.565	2,345,030	56,930	9,604	310	
	Total	34	7,634,571	4,633,259	38,674	2,345,030	423,704	193,904	338,035	155

Whole number of mines reported for 1918, 31. Number of new and reopened mine: during the year, 4. Number of mines abandoned during the year, 1 Whole number of mines r por.cd for 1917, 34.

# SIXTH DISTRICT, 1917—concluded.

d for	ole ex-	tie	pec- ons	operation.		Tons	mined.	number		eci- nts.	in use.	under-	P	oal wash other spe reparing	ers or ecial plant.
Kegs of powder used for blasting.	Pounds of permissible of plosives used.	State inspector.	County inspector.	Days of active opers	Total employees.	By hand.	By machine.	Mining machines—r	Killed.	Injured.	Number of motors i	Number of animals ground.	Number in use.	Average dally capacity.	Tons prepared dur- ing the year.
125 90		2 2 1		266 295 253	7 11 5	6,295 2,495 1,775									
565		5		271	23	10,565		• • • • •	• • • • •						

# COUNTIES, SIXTH DISTRICT, 1917.

ation.		Tons 1	nined.	ss.	Acció	lents.		nd.	Coal v	vashers o eial prepa plant.	r other ring	
Days of active operation.	Total employees.	By hand.	By machine.	Number of machines.	Killed.	Injured.	Number of motors.	Animals underground.	Number in use.	Average daily capacity.	Tons prepared during the year.	Number.
249 239 224 227	673 166 6,739 7,578		1,403,299	28	12 16	10 1 108 119	44 48	51 20 534 605				1 2 3

# COUNTIES, SIXTH DISTRICT, 1917.

271	23	10,565			 	 	 	 1
271	23	10,565			 	 	 	
231	7,601		1,403,299	=	 	 	 	 1

# COUNTIES, SIXTH DISTRICT, 1917.

249 239 229	166	89,412	1,403,299		4 12	10 1 108	4 44	51 20 534	 	
231	7,601	6 231,272	1,403,299	28	16	119	48	605	 	

## SEVENTH INSPECTION DISTRICT.

Counties—Greene, Jersey, Macoupin and Montgomery.
Archibald Frew, Inspector.

Hon. Evan D. John Director, Department of Mines and Minerals, Springfield.

SIR: I have the honor to submit to you the annual report of this, the Seventh District, comprising the coal producing counties of Greene, Jersey, Macoupin and Montgomery.

#### SUMMARY OF THE ITEMS IN THE REPORT.

Number of counties producing coal	4
	1
	3
	8
	2
Number of men underground	7
Number of boys underground	
Number of men outside the mine	
Number of boys outside the mine	
Total number of employees	
Total tons of coal produced	
Days of active operation, all mines	
Kegs of powder used for blasting coal	0
Number of fatal accidents	2
Number of nonfatal accidents	7
Number of employees to each fatal accident	ī
Number of employees to each nonfatal accident 4	0
Tons of coal produced to each fatal accident	3
Tons of coal produced to each nonfatal accident	
Ratio of fatal accidents per 1,000 employees	
The following table gives by counties the output the days worked an	

The following table gives, by counties, the output, the days worked and the number of men employed, 1917 and 1916, with the increase or decrease in each:

	1	.917		1	916	Incre	ase.	Decrease.				
County.	Output- tons	Output- tons Days worked. Mem em-		Output- tone.	Days worked.	Men employed.	Tons.	Days.	Men.	Tons.	Days.	Men.
Greene Jersey Macoupin Montgomery Total and average	6,604 1,320 6,590,825 3,641,676 10,240,425	193			200 186	43 4 5,270 3.074 8,391	360 1,330,959 517,794	19	502 616		 7	6

#### NEW AND REOPENED MINES.

Greene County.—Whitehead Bros., Bert Smith, Roodhouse; Greenfield Mining Company, Greenfield.

Macoupin County.-Montour Coal Co., No. 402, Virden; Ridge Coal

Mining Co., Greenridge; J. J. Harbaugh, Chesterfield.

Montgomery County.—C. & E. 1. Coal Property, No. 12, Witt, and No. 15, Taylor Springs.

#### CLOSED AND ABANDONED MINES,

Greene County.-Kincaid & Mitchell; A. E. Axley.

## PROSPECTIVE MINE.

The Superior Coal Company in sinking a new mine to be known as No. 4, about seven miles southwest of Gillespie, Macoupin County. It is expected that this mine will be the largest producer in the State. The main shaft will be 11 feet by 21 feet inside of the concrete and will have three compartments. The air shaft will be 11 feet by 17 feet inside measurement with a concrete stairway. The equipment of the plant will be up-to-date in every respect and the work is being rushed with all possible speed.

#### IMPROVEMENTS.

The Montour Coal Company at Girard, Macoupin County, has extended motor roads and laid them with heavy rails a distance of 2,000 feet; built 40 stoppings of concrete blocks along the main airways and reduced to a minimum the amount of leakage in that section; doubled the size of the wash house and installed a soft water system with shower baths. Other improvements have been made, such as the replacing of an old boiler with a new one, track scales repaired, etc. At Virden mine this company resumed operations last December after being idle since January 20, 1915. A new concrete engine house was built; the hoisting engine was replaced by a much larger one and the old type generators were replaced by two 150-kilowatt machines of modern design; the boiler house was rebuilt and made fireproof; three new 150-horsepower boilers were installed; the mine haulage roads and air courses cleaned up and placed in good condition; the old slack bins torn down and the tipple remodeled and made much stronger.

Shoal Creek Coal Company, Panama, Montgomery County, extended motor track about 3,000 feet on three different territories; built a new track for loads, storage for empties, and expect to cage the coal from the reverse side; changing pit cars to roller bearings; built a new pump house at Shoal Creek and installed an electric driven pump and a new Cameron pump; built an excension to carpenter shop to facilitate the work there; have bought a 13-ton motor and three more mining machines to be installed as soon as possible; installed 5,000 feet of 400,000 circular mills cable, which

is well insulated, to improve the positive wire lines below.

C. & E. I. Coal Properties, No. 12, Witt, Montgomery County, was closed down two years and eleven months, and reopened on or about November 20, 1916. This mine was in bad condition and had to be cleaned up; began hoisting coal November 29, at a very small tonnage per day and have gradually increased up to 1,500 tons per day; the air courses and haulage roads are in good condition; other improvements are two haulage locomotives, five mining machines, one new boiler complete and one old boiler replaced with a new one, one generator which produces the power for the mining machines and locomotives in the mine.

The Superior Coal Company, Gillespie, Macoupin County, beside making extensions on the haulage roads of their three mines, has laid much heavy iron in preparation of future extensions and roller bearing wheels are being substituted for the old type wheels in the mine cars at mine 1 and 2, and a large number of the new type cars purchased for all three mines. The most important improvement during the year was made at mine No. 1, where all the compressed air mining machinery was taken out and in its place were added to the electrical equipment one 200-kilowatt generator

direct connected to a 20 by 20 engine; seven breast mining machines and three shortwall mining machines; a belt driven trip hammer to sharpen the machine bits, and one 11 by 12 Westinghouse air pump were installed; 80 feet of the main shaft from the landing down was retimbered and new guides put in. On the surface the tipple was repaired, the track and hopper scales overhauled and repaired and a concrete sewer built behind the boiler room to drain blow-off water from the boilers. At mine No. 2 there has been built a car barn below so that the mine cars can be repaired without sending them on top. A 25-kilowatt direct connected generator, one breast mining machine and a 15-ton locomotive were added to the electrical equipment. At mine No. 3 several thousand feet of motor road has been retied, straightened and brushed, while on the surface three boilers were reset, an addition built to machine shop for the engine that runs the line shaft, and a 4-foot radial drill purchased for the machine shop. At each of the three mines a new water tank was erected on the surface. sprinkling of roads there has been installed three large steel tanks out of which the water is forced by compressed air so that the top and ribs of entrys are sprinkled as well as the bottom. Additions are being built to all of the wash houses in order to add more sprays and place all of the sprays in a separate room. The ventilation has been improved at all three mines by rebuilding the old stoppings with concrete blocks and with new stoppings in the mouths of abandoned entries. Two boilers were reset at the coal washer and two steel smoke stacks erected.

Coffeen Coal Mining Company, Coffeen, Montgomery County, has installed a high speed engine, direct connected generator, built smoke stacks, overhauled all boilers, extended motor haulage and reopened territory which

had formerly been closed.

#### FATAL ACCIDENTS.

July 13, 1916, Frank J. Rodgers, Jr., laborer, age 17 years, single, was killed in Carlinville Coal Company's mine, Carlinville, Macoupin County. Deceased was standing on the cage helping the bottom cager to shove back loaded cars, when from some unknown cause, the cage was hoisted, resulting in his death.

July 28, 1916, Robert Haddow, driver, age 24 years, single, was run over by a pit car and killed in Superior Coal Company's No. 3 mine, Gillespie,

Macoupin County.

August 2, 1916, Paul Rau, miner, age 50 years, married, was killed by falling slate in Mt. Olive Coal Company's No. 5 mine, Mt. Olive, Macoupin County. Deceased was standing in a mine car taking down top coal when slate fell, killing him instantly. He leaves a widow and four children.

August 7, 1916, Charles Phillips, miner, age 40 years, single, was killed by falling slate in Consolidated Coal Company's No. 7 mine, Staunton,

Macoupin County. He leaves two dependents, mother and sister.

August 21, 1916, Martin Bogetti, driver, age 22 years, single, was killed by a pit car in Shoal Creek Coal Company's mine, Panama, Montgomery County.

August 27, 1916, John H. Graves, miner, age 46 years, married, was killed in Carlinville Coal Company's mine, Carlinville, Macoupin County, by flying coal from shot blown through pillar. He leaves a widow.

September 21, 1916, Andrew Divita, laborer, age 17 years, single, was caught between the bumpers of two railroad cars in the yards at mine No.

2, Superior Coal Company, Gillespie, Macoupin County, and killed.

October 1, 1916, Alexander Harris, machine runner, age 34 years, married, was killed by a fall of slate in Superior Coal Company's No. 1 mine, Gillespie, Macoupin County. He leaves a widow and four children.

October 28, 1916, Fred Bowers, trip rider, age 21 years, single, was killed by pit cars in Nokomis Coal Company's mine, Nokomis, Montgomery

November 16, 1916, Charles Meyer, driver, age 22 years, single, was killed in Consolidated Coal Company's mine, Staunton, Macoupin County, by pit cars.

November 23, 1916, Henry Garner, machine runner, age 38 years, married, was killed by electrocution while at work in C. and E. I. Coal Properties' mine, No. 11, Hillsboro, Montgomery County.

December 2, 1916, James Harris, miner, age 48 years, single, was caught under fall of slate and killed in Superior Coal Company's mine No. 1, Gilles-

pie, Macoupin County.

December 16, 1916, Charles Dougherty, loader, age 44 years, single, was killed by pit cars in Superior Coal Company's No. 3 mine, Gillespic, Macoupin County.

December 18, 1916, Max Covi, miner, age 22 years, single, fell from the cage while being hoisted out of mine No. 1, Superior Coal Company, Gillespie,

Macaupin County, and received injuries which resulted in his death.

January 24, 1917, Fred Jackson, coupler, age 19 years, single, was killed by pit cars in Consolidated Coal Company's No. 14 mine, Staunton, Macoupin County. Deceased was reaching in to uncouple two cars when another car struck them, crushing his head. He leaves two dependent relatives.

January 27, 1917, George Smith, machine runner, age 46 years, single, was killed by falling coal in Superior Coal Company's No. 2 mine, Gillespie,

Macoupin County.

February 8, 1917, John Hallor, single, miner, age 30 years, employed in No. 7 mine, Consolidated Coal Company, Staunton, Macoupin County, was

killed by falling slate.

March 3, 1917, John Gatelli, machine helper, age 32 years, single, was killed by a fall of coal in Royal Colliery Coal Company's mine, Virden. Macoupin County.

March 12, 1917, Andrew Rodegher, miner, age 16 years, single, employed by C. & E. I. Coal Properties at mine No. 12, Witt, Montgomery County,

was killed by falling coal. He leaves three dependent relatives.

March 14, 1917, Robert Hamilton, driver, age 19 years, single, was killed by a pit car in No. 7 mine, Consolidated Coal Company, Staunton, Macoupin County.

March 27, 1917, Joseph Wyld, miner, age 32 years, married, was killed by falling coal in C. & E. I. Coal Properties mine No. 10, Nokomis, Mont-

gomery County. He leaves a widow.

March 28, 1917, Thomas Hill, miner, age 62 years, married, was killed by a fall of slate in C. & E. I. Coal Properties mine No. 12, Witt, Montgomery County. He leaves a widow.

County. He leaves a widow.

March 28, 1917, Joseph Pitkofsky, miner, age 50 years, married, was killed in mine No. 10, C. & E. I. Coal Properties, Nokomis, Montgomery

County, by falling coal. He leaves a widow and four children.

March 30, 1917, Ernst Woolridge, miner, age 20 years, single, was killed by falling coal in No. 14 mine, C. & E. I. Coal Properties, Witt, Montgomery County.

April 3, 1917, Virgilio Jaeemeti, trip rider, age 31 years, single, was killed by falling slate in Shoal Creek Coal Company's mine, Panama, Mont-

gomery County.

April 4, 1917, Mike Wertlewski, miner, age 38 years, married, was killed in Hillsboro Coal Company's mine, Hillsboro, Montgomery Councy, by a

fall of coal. He leaves a widow.

April 25, 1917, James McGurk, face boss, married, and John Crowder, trip rider, married, were killed by falling slate in Consolidated Coal Company's mine No. 14, Staunton, Macoupin County. McGurk leaves a widow and two children and Crowder leaves a widow and one child.

April 28, 1917, Alexander Poulson, driver, age 41 years, single, employed in No. 12 mine, C. & E. I. Coal Property, Witt, Montgomery County, was unbitching the tail chain when his mule kicked him on the head knocking him against rib of entry, causing his death in a few hours. He leaves one dependent.

April 30, 1917, Thomas Brynn, motorman, age 24 years, single, died from the effect of injuries received November 15, 1916, in Royal Colliery Company's mine, Virden, Macoupin County, by falling clod.

May 7, 1917, John McLuckie, trip rider, age 17 years, single, was killed by pit cars in Superior Coal Company's No. 3 mine, Gillespie, Macoupin County.

May 12, 1917, George Harris, timberman, age 39 years, married, employed in Chicago & Eastern Illinois Coal Property's mine No. 14, Witt, Montgomery County, was killed by pit cars. He leaves a widow and three children.

Respectfully submitted,

ARCHIBALD FREW, Inspector, Gillespie, Illinois.

FATAL CASUALTIES, SEVENTH DISTRICT, JUNE 30, 1917.

Date. Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
1916 July 13 Frank J. Rogers. 28 Robt. Haddow 29 Robt. Haddow 40 29 Paul Rau. 7 Charles Phillips. 21 Martin Bogetti. 27 John H. Graves. 28 Fred Bowers. Nov. 16 Charles Meyer. 16 Charles Meyer. 16 Charles Meyer. 17 John H. Graves. 29 James Harris. 18 Max Covi. 19 Fred Jackson. 21 Fred Jackson. 27 George Smith. 8 John Hallor. 31 John Gatelli. 28 Thomas Hill. 28 Joseph Pitkofsky. 30 Erist Woolridge. Apr. 3 Virgilis Jacemeti. 4 Mike Wertlewski. 25 James McGurk. 25 James McGurk. 25 James McGurk. 26 Jackson. 27 George Martin. 28 Thomas Hill. 29 Thomas Hill. 29 Thomas Hill. 20 Jackson. 20 Jackson. 21 George Martin. 22 James McGurk. 23 John Crowder. 24 Alexander Poulson. 25 George Martin. 26 George Martin. 27 John McLuckie. 28 Thomas Brytn. 29 John McLuckie. 21 George Harris.	24 50 40 22 46 17 34 21 22 38 48 44 22 19 32 62 50 31 24 17 31 32 33 43 44 44 44 45 46 47 47 47 47 47 47 47 47 47 47	Driver Miner do Driver Miner Aschine runner Machine runner Machine runner Miner Loader Miner Machine runner Miner Loader Miner Machine runner Machine runner Machine runner Machine runner Miner  Coupler Machine runner Miner do do do Trip rider Miner Face boss Trip rider Driver Trip rider Driver Trip rider Trip der Trip der	Gillespie Mt. Olive .do .do Mt. Olive .do .do Mt. Olive .do	i i i i i i i i i i i i i i i i i i i	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i i i i i i i i i i i i i i i i i i i	1 4	52 1 5	Pif car. Falling slate. Falling slate. Falling slate. Flying coal. Railroad cars. Falling slate. Pit car. Flying coal. Falling slate. Fli car. Fit car. Falling slate. Falling coal. Falling coal. Falling slate. Falling slate. Falling slate. Falling slate. Falling slate. Falling slate. Falling coal. Falling slate. Falling coal. Falling slate. Falling coal. Falling slate.

## RECAPITULATION OF FATAL ACCIDENTS, SEVENTH DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of aecident.	Νο.	Colliery.	No.
Benld Carlinville. Glilespie Hillisboro Irving Mt. Olivo Nokomis Panama Staunton Thayer Virden Witt Total	2 6 1 1 2 3 2 6 1	Coupler Drivers Face boss Laborers Loader Machine helper Machine runners Miners Motorman Trimberman Trip riders	5 1 2 1 1 3 12 1	Care and shaft. Electrocuted. Falling coal. Falling state. Foll off cage. Foll off cage. Flying coal. Kicked by mule. Pit cars. Railroad cars.	1 8 9 1 1	Carlinville Coal Co. C. & E. I. Coal Prop. Consolidated Coal Co. Hillsbero Coal Co. Mt. Olive Coal Co. Nokomis Coal Co. Royal Colliery Co. Stoal Coes Coal Co. Superior Coal Co.	

## NONFATAL CASUALTIES, SEVENTH DISTRICT, JUNE 30, 1917.

Date		Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost-
1916		Ī		1				Leg Injured, pit car Eye injured, flying coal Back injured, falling coal Back injured, filling coal Back injured, filling coal Back injured, filling car Leg injured, machine, Foot injured, filling cal Back injured, filling coal Back injured, filling coal Foot injured, falling coal Arm injured, falling coal Arm injured, cog. Body injured, mulle, Body injured, mulle, Body injured, mulle, Body injured, lilling car Hand injured, lell. Finger broken, lifting car Arm injured, axe, Head injured, kicked by mule, Hand injured, falling bar Foot broken, pit car Foot broken, pit car Foot broken, falling coal Arm broken, falling coal Arm broken, falling coal Arm broken, falling coal Arm broken, falling coal Foot injured, not stated, Back injured, flying steel Finger ent off, not stated Back injured, flying steel Finger injured, flying coal Foot injured, flying coal Foot injured, flying coal Foot injured, injured, filling car Leye injured, flying coal Foot injured, injured, filling car Body injured, lifting car Body injured, falling coal Body injured, falling coal Arm injured, falling coal Arm injured, falling coal Body injured, falling coal Body injured, falling coal Body injured, falling steel Body injured, falling coal Foot injured, falling steel Body injured, falling steel Body injured, falling coal Foot injured, falling coal Body injured, falling coal Foot injured, falling coal Body injured, falling c	1
July	1 P. Page	36	Staunton	1			1	Leg injured, pit car	
	3 John Mehoek	55	Virden	1	• •	5 8	6	Rock injured, flying coal	
	5 A!berto Canni	37	Gillespie	î		1	. 2	Leg broken, falling coal.	1
	6 Dan Flynn	36	Virden	1		2	3	Back injured, lifting car	
	S Lames Torre	28	Mt. Olive		1			Leg injured, machine	
	11 Fred Taylor	35	Gillespie	i		2	3	Foot injured, flying pulley	
	11 A. J. Schrader	32	Carlinville		1			Hand injured, falling clod	
	14 Arthur Iones	35	Gillesnie	1		2	3	Arm injured, talling coal	
	17 H. Reschetz	21	Staunton		i			Body injured, mule	
	18 Barton Castralle	32	Virden		1			Body injured, pushing car	
	18 John Stiejeck	29	Virden	1	· ;		1	Hand injured, fell	
	20 Albert Diewright	22	Panama		î			Arm injured, axe	
	23 Mike Yurick	34	Mt. Olive	1		2	3	Head injured, kicked by mule	i
	24 Philip Yerbick	24	Panama		1			Hand injured, falling bar	
-	25 Wm. Hartline	45	Witt	1		3	4	Foot broken, falling coal.	1
- 2	27 Mick Zilitz	34	Panama		1			Ankle injured. pit car	^
Aug.	29 Pete Falleims	22	Mt. Olive		1	;		Toe injured, cat ght in cog	
Lite.	4 Charles Cuhin.	48	do	î		3	4	Head injured falling goal	1
	4 Tony Altman	3.)	Hillsboro	1		3	4	Arm broken, falling coal	^
	7 Al Poli	41	Schram City	1			1	Finger cut off, not stated	
	19 Wm Walv	38	do do	1		2	3	Ankle broken pit car	
- 1	22 Robert Thompson .	43	do	1		3	4	Arm injured, flying steel.	
- :	25 Wm. Owens	53	do	1		6	4	Finger injured, falling coal	
7	28 L. Galbraith	23	Virden	· · · i	1			Collar bone broken, pit car	
ept.	1 S. Green	22	do		i		2	Foot injured, motor	
	2 Joe Gatto.	23	Virden		1			Finger injured, lifting car	
	2 Joe Carteze	40	Benid	1		3	4	Eye injured, flying coal	١,
	5 B. Gamblin	34	Nokomis	î	•	1	2	Body injured, lifting car	1
1	4 Wm. Crawford	33	Taylor Springs.	1		3	4	. do	
]	16 W. Walker	52	Nokomis	1	٠;	5	2	Body injured, falling coal	
- 1	21 Clarence England	22	do		1		· · · i	Rody burned electric current	
2	5 H. C. Depson	43	do	1			î	Finger broken, pit car.	
2	5 Geo. Conley.	40	Hillsboro	1		6	7	Back injured, falling coal	
2	7 Wike Hanisho	10	Witt	1		1 2	2	Body injured, not stated	
- 2	7 Tony Ignietis	20	Gillespie		i			Arm injured, fell off car	
2	7 Hugh Hill	27	Benld	1		1	2	Eye destroyed, flying steel	
et.	3 Wm Bowlando	95	Carlinville	1	٠.	4	9	Body injured, falling coal	
,	5 John Rice	58	Carlinville	1	1	5	6	Head indured, falling slate	
	5 Frank Ferraris	24	Virden		1			Shoulder injured, falling slate	
	9 Pudolph Holon	21	Hillsboro	••••	1			Hand injured, falling coal	
1	3 H. Bailey	18	do.		i	- 2	0	Foot injured, motor	
1	4 James Turk		Gillespie	1			1	Body injured, falling slate	1
1	8 Tony Kofalt	30	Panama	1		2	3	Body injured, falling rock	
3	0 J. Groce	66	do	1	i	1	2	Arm broken fell off car	
3	0 F. McCollongh	43	do		î		1	Leg broken, machine	
3	A. Lamprecht	38	d0		1			Back injured, lifting car	
ov.	3 Roy Allman	28	Witt	1	i	2	3	Finger broken pit car	
	4 Charles Shelton	35	Hillsboro	1		3	4	Finger broken, falling coal	
	6 Alva Mills	31	Panama	1		1	2	Finger broken, pit car	
	7 James Ninletti	26	NOKOMIS	1	. ;	2	3	Head injured, coal fell from table.	1
	9 George Charles	34	Carlinville	· · · i	1	4	5	Ribs broken, pit car	
1	0 Charles Batitus	33	Nokomis	1		1	2	Body injured, falling coal	
1	1 Wm. Buzoen	23	Staunton		1		1,	Body injured, not stated	
					- 1			Dack Indured, machine	1

NONFATAL CASUALTIES, SEVENTH DISTRICT, JUNE 30, 1917—continued.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost-days.
1916	S. J. Monshan. A. Sturse. Joe Burton. John Kasner. Dom Stella Ira Newman. Joe Mouletano. F. Rahn. J. Meachko. Sam Trainer. Ben Peptone. Frank Tries. James Bellezanti. W. Brannon. Joe Schey. W. Brannon. Joe Schey. W. Hartilme. M. Maclimza. F. Bayer. Charles Smith. Charles Smith. James Hamilton. Henty Mayer. Andy Zar. E. Crouch. W. Freguson. W. Freguson. A. W. Ditzler. Lorenzo Gasperio George Benchop. Martin Kruz. W. M. Monshine. C. Hallon. L. Lucas. Bas Baleno.	000	******						
Nov. 16	S. J. Monshan	69	Hillsboro	···;	1		····i	Back injured, lifting car	34 30
17	Joe Burton	38	Schram City	1		3	4	Rib broken, falling slate	1 *
17	John Kasner	26	Mt. Olive	1	- :		1	Leg broken, not stated	*
20	Ira Newman	25	Gillespie	···i	1		···i	Leg broken, not stated Finger injured, latch Head injured, fell down Leg injured, pit car Foot injured, machine	3/4
20	Joe Mouletano	21	do		1			Leg injured, pit car	58
23 28	I Meachko	56	Taylor Springs	1		7	8	Collar hone broken, pit car	88 40
28	Sam Trainer	43	Gillespie	î		3	4	Collar bone broken, pit car Head injured, falling slate	52
29	Ben Peptone	22	Benid		1				56
Dec. 1	James Bellezanti	38	Girard	· · · i	1	4	4	Rib broken, pit ear.  Back injured, lifting car. Leg injured, machine Body injured, falling slate. Hand injured, falling coal. Head injured nit ear.	70
1	W. Brannon	29	Gillespie	1		3	4	Leg injured, machine	183
2	Wm Hartline	46	Witt	1		2	3	Body injured, falling state	51
5	M. Maclimza	30	Gillespie		i			Head injured, falling coal	80
6	F. Bayer	45	Nokomis	;	1		4	Leg injured, pit car.	
7	Charles Smith	00	Staunton	1	i,	3	4	Leg injured, pit car	40
8	Wm. Dobrinsky	40	Gillespie		1			Leg injured, pit car Fingers cut off, motor Leg injured, pit car Head injured, pit car	55
13	Charles Lund	19	Notromis	1	.;	6	7	Finger injured, prop. Finger broken, pit car Toe broken, falling coal. Leg injured, machine.	35 45
14	James Hamilton	55	Witt		1			Toe broken, falling coal.	59
15	Henry Mayer	48	Virden	1		1	2	Leg injured, machine	31
20	E Crouch	43	Mt. Ulive	1		*** 1	2	Finger injured, pit car Finger broken, not stated	37
22	Wm Ferguson	24	do	î			ĩ		40
22	A. W. Ditzler	25	Nokomis	1		2	3	Leg broken, motor. Pelvis broken, mule. Ribs broken, not stated.	144
27	George Benchop	51	Staunton	1	1	3	1	Ribs broken, not stated	61
27	Martin Kruz		Mt. Olive		1			Leg injured, not stated	96
28 28	Wm. Moonshine	18	Staunton		1			Ankie broken, not stated	86 98
30	L. Lucas	29	do	· · · i		1	2	Leg injured, not stated.  Ankle broken, not stated.  Head injured, falling coal. Ribs broken, pit car.	44
1917	Dog Relenc		Donld		١,				
Jan. 1	John Murray	61	Witt	i	1	····i	···i	Foot broken, pit car. Finger injured, not stated Finger broken, fell. Rib broken, kicked by mule. Rib broken, motor. Foot injured, machine Body injured, falling coal.	82 38
8	R. Swash.	37	Schram City	1		2	3	Finger broken, fell	30
9	R. Stanles	27	Virden Nokomis	1		1	1	Rib broken, kicked by mile	34 48
10	Jos. Clelland	35	Hillsboro	î		4	5	Foot injured, machine	46
11	Mat Elliot	30	Gillespie	;	1		;	Body injured, falling coal	42
11	John Sloban	28	Panama	1	i			Leg injured, pit car	65 35
13	R. W. Robertson	40	Hillsboro	1		4	5	Leg injured, falling coal	34
13	Joe Perla	30	Gillesple	1	1.	2	3	Jooy mjured, nating coal.  de injured, pit car. Leg injured, falling coal. Back injured, fell. Body injured, fell. Leg injured, pit car. Finger broken, falling coal. Body injured mula.	30
16	Lucien Hall	24	Taylor Springs.	1		1	2	Leg injured, pit car.	55
17	F. Denbroski	22	Hillsboro		1	<sub>i</sub>		Finger broken, falling coal.  Body injured, mule Leg broken, falling coal. Head injured, not stated Body injured, pit car	35
18	Frank Gribner	25	.do	1	i	1		Leg broken, falling coal.	*
18	J. Gourley	50	Nokomis	1		11	6	Head injured, not stated	46
18	Norman Ewbanks.	120	Virden	1	1	ا ا		Body injured, pit car	45 40
19	John Cavaretto	27	Gillespie		1			Body injured, falling prop	*
19	John Lessack	38	Witt	;	1			Shoulder injured, pit car	45
20	Louis Henderson	39	Panama	1		1 4	5	Rib injured, fell	31
23	Alva Mills	31	do	1		i	2	Body injured, pit ear Body injured, falling slate Body injured, falling prop. Shoulder injured, pit ear Hand injured, not stated. Rib injured, fell. Body injured, falling coal	56
23	W. S. Williams	33	Staunton	1		3	1	Log injured not stated	158 63
24	H. Thomas	25	Gillespie	1			i	Body injured, kicked by mule	82
25	Frank Strukel	::	Staunton		1			Body injured, kicked by mule Collar bone broken not stated Leg injured, burning oil.	40
26	Mike Breza	26	Gillespie	1	1	2	3	Leg broken, falling clod	72 82
27	Ed Cloud	57	do	î		4	5	Leg injured, falling coal	70
28	Bas Baleno, John Murray, R. Swash Charles Sheerin R. Staples, Jos. Clelland, Mat Elliot, Wm. Hood, John Sloban, Joe Perla, Lucien Hall, F. Denbroski, Wm. Littlebale, Frank Gribner, J. Gourley, Norman Ewbanks, Pacifica Ricetalla, John Cavaretto, John Lessack A. Martino, Louis Henderson, Alva Millam, Harry Jackson, H. Thomas, Frank Strukel, Henry Frey, Mike Breza, Ed Cloud, Joe Zonsa, F. Rodeghiero, T. Tarrach, W. McLuistion,	46	Virden	1		8	9	Leg broken, falling clod Leg injured, falling coal Eye injured, flying sulphur Arm broken, not stated Eye injured, flying coal.	57
31	T. Tarrach	54	do	1		7	7	Eye injured, flying coal	66
Feb. 6	W. McLuistion	45	Nokomis	1		5	6	Foot broken, falling coal	120

NONFATAL CASUALTIES, SEVENTH DISTRICT, JUNE 30, 1917—continued.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents,	Character of injury and cause of accident.  Eye injured, pit car. Eye injured, not stated. Finger broken, pit car. Hand injured, falling coal. Leg injured, falling coal. Leg injured, falling coal. Leg injured, falling coal. Leg injured, falling coal. Finger injured, kicked by mule. Eye injured, fixing coal. Ankle broken, falling coal. Finger injured, kicked by mule. Hand injured, kicked by mule. Hand injured, kicked by mule. Back injured, pushing car. Leg injured, fixing coal. Collar bone broken, pit car. Leg injured, fixing coal. Eye injured, fixing coal. Eye injured, fixing coal. Eye injured, fixing coal. Eye injured, fixing coal. Ribs broken, squeezed by mule. Body injured, fixing coal. Back injured, pit car. Back injured, pit fixing stated. Hand broken, falling roal. Eye fixing the fixing fi	Time lost—
1917									
eb.	6 Frk Oblok	19	Staunton	٠	1		;	Hand injured, pit car	5 5
1	2 Weaper Root	30	Panama .	T	i		, ,	Finger broken, pit car	-1
î	3 Frank Coakley	31	Witt		Î			Hand injured, falling coal	3
1	3 Fred Langewish	60	Staunton		1			Leg injured, machine	3
1	3 Joe Sounido	29	do	;	1			Leg injured, falling coal	8
1	5 I Muzeni	39	Staunton	1			1	Eve injured, flying coal	9
1	6 Richard Champley.	53	Witt	1		4	4	Ankle broken, falling coal	11
1	9 George Trueman	38	Virden	1		1	2	Foot broken, machine	13
2	O Joe Ozentz	20	Popomo	1			1 6	Rib broken pit cor	4
2	4 D. Casta	23	Staunton	i	1::		1	Eve injured, not stated	6
2	4 Dan Keating	19	Gillespie		1			Back injured, kicked by mule	12
2	7 Pasol Guisseppe	30	Girard	;	1			Back injured, pushing car	3
5	8 Cyrus Williams	32	Virden		i i	4		Collar bone broken, pit car	3
far.	2 C. Reed	49	Nokomis	1		7	8	Body injured, falling coal	3
	2 J. Zoveral	41	do	1		1	2	Eye injured, flying coal	3
	5 Wm. Grillith	30	Gillespie	1		2	9	Foot broken, squeezed by mule	10
	8 P. Murphy	21	Nokomis		i			Hand cut off, pit car	- 2
	8 D. Pinchioli	35	Hillsboro		. 1			Back injured, pit car	- 3
	9 Wm. Simberger	19	Gillespie	;	1	;		Back injured, fell off tail chain	
1	0 George Coleman	35	Stannion	1		4	1 2	Collar hone broken not stated	
j	O John Caslerlubes	47	Witt	i			i	Hand injured, falling coal	
1	2 John Barlow	69	do		1	1	1	Foot broken, pit car	9
1	4 Joe Maxwell	49	Carlinville			4	5	Finger injured, not stated	1
í	6 Steve Kapilla	18	do	,	l'i		1	Finger injured, falling rail	4
j	6 Joe Makatelle	30	Gillespie	j	ij		1	Ankle injured, falling slate	i
2	21 T. Benni	41	Nokomis	1	١.	-5	6	Leg broken, pit car	10
-	22 K. Kobetich	40	Panama		1	9		Body injured pit car	١.
3	23 P. RoJonnie	34	Nokomis	ĺ		1	2	Back injured, lifting coal	4
2	26 Joe Unick	. 24	Staunton		. 1			Finger cut off, motor	(
2	26 V. Henning	. 19	Mt. Olive		I			Hond injured not stated	
- 6	29 J. Cannon	50	Nokomis		il.	5		Body injured, lifting car	1
3	80 W. G. Virdell	. 53	Gillespie		i	6	7	Foot injured, falling slate	1
3	31 John Shalkey	. 18	Mt. Olive		1			Body injured, pit car	1
pr.	M. Zannanena	96	Virden			1 2	2	Rody injured lifting weight	1
.pr.	9 John Tisone	39	Panama	1		2	3	Body injured, lifting coal.	
1	10 Alex Spiers	. 19	Witt		. 1			Hand injured, pit car	
	B. Matto	4:	Virden			2	3	Leg injured, pushing car	
	19 George Hess.	61	Staunton	1	1	1	9	Eve injured, flying coal.	
1	19 E. A. Tiefft	. 20	Panama		i		. 1	Body injured, falling coal	
- 5	20 Silva Tagolis	. 23	Benld		: 1		;	Body injured, pit car	١.
	20 A. Steuse	40	Renld	;		10	11	Ribs broken not stated	1
- 3	21 Dante Jarameti	20	Panama	1	i ::	1 3	1	Leg injured, falling coal	
- 1	23 J. Polka		Staunton		. 1			Body injured, not stated	1
-	24 John Maccick	34	Taylor Springs.			1	2	Leg injured, struck by pipe	
- 1	28 L. Moher	2:	Nokomis		1		1	Body injured, pit car.	
-	28 J. Zoverals	4	do		1	i	1	Arm broken, fell.	
for:	John Malcor	18	Gillespie		1			Leg broken, pit car	
lay	5 Battiste Bonelli	4:	Panama		1	1 6	3	Finger out off, blasting can	
	8 W. Harmon	44	Nokomis		1		6	Eye injured, punch	
	11 George Berriman	. 18	Virden		. 1			Foot broken, pit car	
	12 John McNally	. 5	Witt		١.:	8	1	Foot injured, flying wedge	
	14 John Fenetti	15	do		1 1			Arm proken, not stated	:
	14 Frank Clayton	4	Virden	1	i	4	4	Toe broken, falling prop.	1
	16 Roy Fike	. 31	Panama		I	1	2	Hand broken, pit car	
	Harry Cruthis	. 23	Toylor Cari		1			Leg broken, pit car	

## NONFATAL CASUALTIES, SEVENTH DISTRICT, JUNE 30, 1917—concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Tine lost—days.
June 5 6 7 7 7 7 9 12 14 14 18 22	Luther O'Neal Dale Hood George Pogue Joe Magnetti U Majowski Peter Arena Claude Riffey Vincent Valerio Roy Burns	41 50 27 36 19 33 33 19 32 43 24 20 19	Panama Virden Benld Wittdo Panama Sorento Witt Benlddo Witt Uirden Witt Wirden Witt Wirden Witt Wirden	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	2 4  4  2	3 5 1 	Leg broken, falling coal Finger roken, coal fell down shaft Finger injured, not stated. Leg injured, falling coal Leg broken, falling coal Bod y injured, falling state. Bed y injured, falling coal Foot injured, notor Finger broken, sprag.	48 * * * * * * * * *
Number Number	or returned to work, injured not returned to wor nber returned	k.	2	27 50 77	T	ime vera	lost l	oy men returned. days. 9 yys lost. 5	,848 5.64

# RECAPITULATION OF NONFATAL ACCIDENTS, SEVENTH DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Benid	8 36 2 15 12 38 22 3 4 25 7 22	Asst. m. managers Blacksmiths.  Cayers Cayers Carpenter Coupler Drivers Electricians Foreman Laborers Loaders Machine helpers. Machine helpers. Machine runners Miners Motormen Spragers Timbermen Trackmen Trapper Trip riders	2 6 1 1 35 3 1 18 48 4 11 54 8 2 6 5 1	Burning oil. Caught io mach'y. Electric current Falling clod. Falling cool. Falling rock. Falling rock. Falling state. Fell. Falling state. Fell. Motor. Mulc. Mulc. Pit cars. Pushing ar Struck by objects. Not stated.	2 1 1 45 1 14 12 8 12 9 8 12 48	Carlinville Coal Co	3.
Total	227		227		227		22

RECAPITULATION OF NONFATAL CASUALTIES, NATURE OF INJURIES, CONJUGAL RELATIONS, AND TIME LOST, SEVENTH DISTRICT, JUNE 30, 1917.

	<u>.</u>			i.	ents.	Time los	t—days.	ntage juries.
Nature of injuries.	Number	Married	Single.	Children	Dependents.	Total.	Aver- age.	Percentage of injuries.
Ankle broken¹ Ankle injured¹ Ankle injured¹ Arm broken² Arm injured. Back injured³ Body burned d Body injured⁴ Collar bone broken¹ Eye destroyed Eye injured³ Finger cut ord¹ Finger cut ord¹ Finger injured³ Foot broken³ Foot injured³ Hand broken² Hand broken³ Hand eut off Hand injured⁴ Leg broken³ Head injured⁴ Bed injured³ Head injured³ Bothena¹ Head injured³ Bothena¹ Bed injured³ Bed injured	4 4 4 5 4 4 15 1 40 6 1 1 14 13 5 5 1 1 1 1 9 9 9 9 2 1 1 1 1 1 1 1 1 1 1 1	3 2 3 3 2 7 1 1 2 7 3 1 1 2 6 4 6 6 1 6 9 8 8 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 2 2 2 8 3 3 3 3 5 5 5 5 3 1 1 1 9 9 3 6 6 9 9 1 2 2 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1	7  4  3  25  53  13  11  11  50  12  23  1  11  18  26  55  35   4  4  20  20  20  20  20  20  20  20	9 2 7 7 5 5 32 11 82 116 22 126 22 126 23 23 24 22 7 39 6 41 24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	264 162 300 158 770 49 1,569 202 202 346 430 182 346 716 490 764 473 473 470 480 78 480 78 480 78 480 78 480 78 480 78 480 78	\$8, 00 54, 00 30, 00 30, 00 30, 50 50, 23 49, 00 50, 61 40, 40 50, 00 54, 17 39, 09 45, 50 38, 44 102, 29 58, 13 40, 00 40, 83 84, 89 104, 85 56, 94 44, 00 39, 00 59, 67 35, 00	1. 76 1. 77 2. 22 1. 77 6. 61 1. 44 17. 65 2. 64 6. 17 2. 22 2. 22 2. 22 3. 9 3. 9 3. 9 3. 9 4. 4 4. 8 8. 8 6. 6 6. 1 7. 6 6. 1 7. 7 8. 8 8. 8 9. 6 9. 6 9. 6 9. 6 9. 6 9. 6 9. 6 9. 6
Total	227	138	89	334	453	9,848	55, 64	100.0

One not returned to work.
Four not returned to work.
Two not returned to work.
Nine not returned to work.
Three not returned to work.
Seven not returned to work.

GREENE COUNTY,

				Disposition of output.							
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to railroad companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
8	LOCAL MINES.  Burl. Wyatt. Frank Hopper Whitehead Bros. Greenfield Mining Co. Jas T. Adkins. Whitehead Bros. Bert Smith. Henry Cartton. O. S. Walker.	do	346				2,000 1,200 1,144 953 420 350 336 163 28	10			
	Total		6,604				6,594	10			

Mines in 1916, 8. New mines, 3. Abandoned mines, 2. Mines in 1917, 9.

JERSEY COUNTY,

LOCAL MINES.  1 Bott & Griner	Brighton	1,320	 	 1,320	

Mines in 1916, 1. Mines in 1917, 1.

MACOUPIN COUNTY,

_								
	SHIPPING MINES.							
1	Superior Coal Co., No. 3	Gillespie	1,158,796			1,138,201	4,656	15,939
2	Superior Coal Co., No. 2	do	1,071,283			1,048,639	4,756	17,838
3	Superior Coal Co., No. 1	do	885,467			863,218		19,576
4	Consolidated C. Co., No. 14.	Staunton	760,643					50,456
5	Consolidated C. Co., No. 7	do	692,636					38,303
	Consolidated C. Co., No. 15.					589,531		20,509
7	Royal Colliery Co., Royal	Virden	508,097			254,265	5,059	14,667
8	Montour Coal Co., No. 403	Girard	318,578			166,316		
10	Mt. Olive Coal Co., No. 5	Mt. Onve	264,515			71,414	2,974	8,833
11	Carlinville Coal Co	Carinvine	175,344					
	Montour Coal Co., No. 402		126,917	00,411		54,756	2,267	4,417 252
1.4	Ridge Coal Mining Co	Greenriage	6,517	0,204			11	202
	Total		6,578,833	697,662	19 350	5,606,236	53,729	201,856
	A Otal		0,010,000	001,002	10,000	0,000,200	00,720	201,000
	LOCAL MINES.							
	mooral marriage						l i	
-1	Ed. A. Bauser	Bunker Hill	9.867				9,867	
2	C. E. Pitchford	Rockbridge	1,620				1,600	20
	J. J. Harbaugh		505				489	16
	Total		11,992				11,956	36
	m + 1 + 1 - 1		4 400 004	000 000	10.010	5 000 000	05.005	001 000
	Total—15 mines		6,590,825	697,662	19,350	5,606,236	65,685	201,892
_		1				1		

SEVENTH DISTRICT, 1917.

101 101	ble ex-	tic	pec- ons	ation.		Tons	mined.	number	Acder	eci- nts.	in use.	animals under-	C pi	oal wash other spe reparing	ers or ecial plant.
blasting.	Pounds of permissible explosives used.	State inspector.	County inspector.	Days of active operation.	Total employees.	By hand.	By machine.	Mining machines—in use.	Killed.	Injured.	Number of motors in use.	Number of animals ground.	Number in use.	Average dally capacity.	Tons prepared during the year.
40 100 15				170 140 250 131 200 100 115 100	5 7 4 8 1 5 3 3	2,000 1,200 1,144 953 420 350 346 163 28									
193				136	37	6,604									

SEVENTH	DISTRICT,	1917.
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1	1	1 1			1		1	1
1	i	1						
1	1	1 1						
	1	950	1 4	1 220				1
		201	1 1	1,020		 	 	
3		1 1				1 1	1	1

# SEVENTH DISTRICT, 1917.

	_													_
6,218	5	1	260	690		1,158,796	12	3	11	8	23		 	
5,859	. 3	1	249				45	3 3 3	27 15	-4	34		 	i
5,724		5		674		885,467	13	3	15	5			 	
4,212	4 3 2 3	- 5	239	622		760,643	22	3		8	31		 	
3,729	2	1	239	569		692,636	9	4	19	- 8	18		 	ļ
3,434	3	3	177	599		610,040	29			2	31		 	
9,908 6		1	233	456			14	2	18	3	30		 	
15,698	6		254	317	318,578				3 2 8 3	3 2 2	24		 	
1,513		1	183	250			18	1 2	2	2				
(0,02)	4	1	244		175,344				8	2.	12		 	
5,507		1	150	216						2				
227	] 1	1	38	68	6,517					1	3		 	
										-		_	 	
72,058 6	00 41	22	210	5,352	594,582	5,984,251	165	20	118	47	267		 	
		-	===					-	-	==			 	
	1						ļ							1
00	1 ,		070	10		0.027								1
80		1	270		1 000									
20			150 150	7	505								 	
• • • • • • • • • • • • • • • • • • • •	1		130	-	303								 	
100	. 3	1	190	22	2,125	9,867								
100			130		2,120	3,001							 	
72,158 6	00 41	23	206	5 384	596 707	5,994,118	166	20	118	47	267			
2,100	41	20	200	0,001	000,101	0,004,110	100	20	110	41	201		 	1

## MONTGOMERY COUNTY,

					Dispos	ition of ou	tput.	
Number.	Name of operator.	Postoffice address of the mine	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
	SHIPPING MINES.							
1	Shoal Creek C. Co., No. 1	Panama	680,946	283,147	25	356,062	3,262	38,450
2	C. & E. I. Coal Prop., No. 14 Nokomis Coal Co., No. 1	Witt	645,778 605,868	638,644				7,134
4	C & E I Coa Prop No 10	do	594,411	199 840		393,378	4,557 302	14,477 891
5	C. & E. I. Coal Prop., No. 11	Hillsboro	481,224	427,742		48,124	1,090	
6	C. & E. I. Coa Prop., No. 10 C. & E. I. Coal Prop., No. 11 Hillsboro Coal Co	do	328,839	202,444		101,148	15,382	9,865
7	C. & E. I. Coal Prop., No. 12	Witt	167,163	159,209			5,551	2,403
8	C. & E. I. Coal Prop., No. 12 Coffeen C. M. Co., No. 2 C. & E. I. Coal Prop., No. 15	Coffeen	97,390 40,057	97,390		15,037	75	738
9	C. & E. I. Coal Flop., No. 15	rayior oprigs	40,037	24,207		15,037	13	100
	Total—9 mines		3,641,676	2,619,457	25	913,749	30,219	78,226

Mines in 1916, 7. New mines, 2. Mines in 1917, 9.

# SEVENTH DISTRICT, 1917.

1 tor	de ex-	Inst tio	ns	tion.		Tons	mined.	number		eci- nts.	n use.	under-		oal wash other sp reparing	ecial
Kegs of powder used for blasting.	Pounds of permissible explosives used.	State inspector.	County inspector.	Days of active operation.	Total employees.	By hand.	By machine.	Mining machines—n in use.	Killed.	Injured.	Number of motorsin	Number of animals a	Number in use.	Average daily capacity.	Tons prepared during the year.
5,707 5,202 4,121 3,792 2,706 1,718 4,442 881	124,475	4 2 3 5 5 3 3 3 3	2 4 5 3 5 2 2 3 3	275 212 194 190 262 247 154 142 65	548 662 465 585 348 272 287 175 234	645,778 127,778 96,090 16,025	680,946 605,868 594,411 481,224 328,839 39,385 1,300 24,032	18 27 17 10 5 1 3	2 2 1 2 1 1 3	25 14 7 31 19 2 6 1	6 11 11 15 2 4 2 1 2	26 1 2 25 18 21 10 9			
8,569	124,975	29	29	193	3,576	885,671	2,756,005	103	12	109	54	112			

### SHIPPING MINES, RECAPITULATION BY

					Disposi	ition of out	put.		used for	ple ex-
Number.	Counties.	Number of mines.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to railroad companies and loaded on cars.	Sold to local trade.	Consumed or wasted at the mine.	Kegs of powder use blasting.	Pounds of permissible explosives used.
1 2	Maeoupiu Montgomery	12 9	6,578,833 3,641,676	697,662 2,619,457	19,350 25	5,606,236 913,749	53,729 30,219	201,856 78,226	72,058 28,569	600 124,975
	Total	21	10,220,509	3,317,119	19,375	6,519,985	83,948	280,082	100,627	125,575

### LOCAL MINES, RECAPITULATION BY

par. sav.									
1 Greene						6,594 1,320	10	193	
2 Jersey 3 Macoupin	3	11,992				11,956	36	100	
Total	13	19,916				19,870	46	293	
The district .	34	10,240,425	3,317,119	19,375	6,519,985	103,818	280,128	100,920	125,575

### ALL MINES, RECAPITULATION BY

1 Greene 2 Jersey	1	1 320				6,594 1,320		193	
3 Macoupin 4 Montgomery	15 9	6,590,825 3,641,676	697,662 2,619,457	19,350 25	5,606,236 913,749	65,685 30,219	201,892 78,226	72,158 28,569	600 124,975
Total	_				6,519,985		280,128	100,920	125,57

Whole number of mines reported for 1916, 28. Number of new and reopened mines during the year, 8. Number of mines abundoned during the year, 2. Whole number of mines reported for 1917, 34.

## COUNTIES, SEVENTH DISTRICT, 1917.

tion.		Tons	nined.	ra .	Accid	ents.		ıd.	Coal w	ashers o ial prepa plant.	r other ring	
Days of active operation.	Total employees.	By hand.	By machine.	Number of machines.	Killed.	Injured.	Number of motors.	Animals underground	Number in use.	Average daily capacity.	Tons prepared dur- ing the year.	Number.
210 193	5,362 3,576	594,582 885,671	5,984,251 2,756,005	165 103	20 12	118 109	47 54	267				1 2
203	8,938	1,480,253	8,740,256	268	32	227	101	267				

# COUNTIES, SEVENTH DISTRICT, 1917.

136 250 190 157 185	37 4 22 63 9,001		9,867	1								1 2 3
---------------------------------	------------------------------	--	-------	---	--	--	--	--	--	--	--	-------------

# COUNTIES, SEVENTH DISTRICT, 1917.

250 4 1,320 205 5,384 596,707 5,994,118 193 3,576 885,671 2,756,005	103 12 109 54	17 267 54
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# EIGHTH INSPECTION DISTRICT.

Counties-Bond, Clinton, Madison and Marion. John Kaney, Inspector.

Hon. Evan D. John, Director, Department of Mines and Minerals, Springfield.

Sig: I have the honor to submit to you the annual report of this, the Eighth District, comprising the coal producing counties of Bond, Clinton, Madison and Marion.

### SUMMARY OF THE ITEMS IN THE REPORT.

Number of counties producing coal	4
Number of shipping mines	25
Number of local mines	11
Number of new or reopened mines	6
Number of closed or abandoned mines	1
	.051
	156
	610
Number of boys outside the mine	4
	821
Total tons of coal produced	
	189
Kegs of powder used for blasting coal	
Number of fatal accidents	17
	178
	401
Number of employees to each nonfatal accident	38
Tons of coal produced to each fatal accident	
	075
	.49
The fellowing table piece to the state of th	

The following table gives, by counties, the output, the days worked and the number of men employed, 1917 and 1916, with the increase or decrease in each:

		1917			1916	Incre	Decrease.					
County.	Output- tons.	Days worked.	Men em- ployed.	Output- tons.	Days worked.	Men em- ployed.	Tons.	Days.	Men.	Tons.	Days.	Men.
Bond	107,895 1,426,594 5,044,261 1,088,619 7,667,369	178 190	1,401 4,246 1,045		233 183 182		51,413 31,006 1,275,831 188,126 1,546,376 1,546,376	7 12	162		55	i 1

### NEW AND REOPENED MINES.

Clinton County.-Consolidated Coal Co., Breese.

Madison County.-Mt. Olive & Staunton Coal Co. No. 1, Staunton; Lumaghi Coal Co. No. 3, Collinsville; Beck-White Coal Co. No. 1, Edwardsville; A. Decota, Bethalto: Charles Brueggeman, Alton,

#### Abandoned Mines.

Madison County .- Peter Meyers, Bethalto.

#### CHANGE OF NAME.

Edwardsville Home Trade Coal Co. to Madison County Mining Co. No. 1; F. W. Eilers to John Kowalzeki.

#### Improvements.

The New Staunton Coal Company, Livingston, Madison County, has installed a coal crusher which has a capacity of 500 tons per hour.

The North Breese Coal & Mining Company, Breese, Clinton County, has installed a Scotdale coal crusher with a capacity of 200 tons per hour, at a

cost of \$7,000.

The Breese-Trenton Mining Company, Beckemeyer, Clinton County, has installed a Jeffrey Roller Type coal crusher, having a capacity of 200 tons per hour, driven by a Russell 100-horsepower engine belt. This crusher connects to a Jeffrey coal conveyor, having a capacity of 250 tons per hour, which empties into two 15-ton storage bins.

The Kerens-Donnewald Coal Company, Worden, Madison County, has erected an up-to-date wash house, 18 by 18 feet, with nine sprays and an

abundance of hot and cold water.

The Lumaghi Coal Company has installed at No. 2 mine, Collinsville, Madison County, two storage battery motors having 300 amperes per hour with 45 cells and 25 plates with each cell, which will improve the haulage problem of this mine. A new 5-foot booster fan has been installed, which will provide adequate ventilation for this mine. This company has also installed, at No. 3 mine, a storage battery motor, capacity 320 amperes, 96 volts, speed of 6 miles per hour, length of haulage 3,200 feet. Two selfdumping cages are on the ground and will be put in.

Donk Bros. Coal & Coke Company has installed three 5-foot booster fans at No. 2 mine, Maryville, Madison County. This makes six booster fans in this mine. This company has put in a booster fan at No. 1 mine, Collins-

ville, Madison County, improving the ventilation very satisfactorily.

#### Fatal Accidents.

July 8, 1916, Martin Rassau, driver, age 23 years, single, was killed by pit cars in Lumaghi Coal Company's mine, No. 2, Collinsville, Madison County.

August 13, 1916, Paul Ruhl, driver, age 20 years, single, died from injuries received August 5, when he was struck by a pit car, in Mt. Olive and Staunton Coal Company's mine No. 2, Williamson, Madison County.

September 11, 1916, N. S. Parkinson, laborer, age 40 years, married, was killed by railroad cars at the Marion County Coal Company's mine No. 1, Glen Ridge, Marion County. He leaves a widow and four children.

September 12, 1916, Mike Tinekite, driver, age 35 years, married, fell under a trip of cars and killed in Lumaghi Coal Company's No. 2 mine, Collinsville, Madison County. He leaves a widow and four children.

October 10, 1916, Charley Vickroy, driver, age 21 years, married, was crushed to death between pit cars and coal rib in Lumaghi Coal Company's No. 2 mine, Collinsville, Madison County. He leaves a widow and one childNovember 3, 1916, Antone Tomulionis, miner, age 42 years, married, was struck on the head by falling face coal and instantly killed in Lumaghi Coal Company's No. 2 mine, Collinsville, Madison County. He leaves a widow and two children.

November 6, 1916, John Seroki, miner, age 43 years, married, was killed in Southern Coal, Coke & Mining Company's No. 9 mine, New Baden, Clinton

County, by falling slate. He leaves a widow and four children.

November 10, 1916, John Bouman, machine runner, age 30 years, single, was killed by falling slate in Mt. Olive and Staunton Coal Company's mine No. 2, Williamson, Madison County.

November 17, 1916, Peter Lutvemapeck, miner, age 45 years, married, employed in the New Staunton Coal Company's mine, Livingston, Madison County, was instantly killed by a fall of rock. He leaves a widow and two children.

November 21, 1916, Barney Sobut, machine helper, age 21 years, single, died from injuries received October 18, by being struck by a fall of slate from face in New Staunton Coal Company's mine, Livingston, Madison County.

December 28, 1916, Edward McClain, machine runner, age 36 years, married, was killed by falling coal in Southern Coal, Coke & Mining Company's mine No. 9, New Baden, Clinton County. He leaves a widow and four children.

January 8, 1917, Louis Wille, laborer, age 33 years, married, employed by Donk Brothers Coal and Coke Company, mine No. 2, Maryville, Madison County, was killed by pit cars. He leaves a widow and two children.

January 9, 1917, William Tweede, machine runner, age 33 years, married, was killed by an electric shock in Kerns-Donnewald Coal Company's mine,

Worden, Madison County. He leaves a widow and two children.

February 9, 1917, William Helger, machine runner, age 34 years, married, was killed by a fall of coal in Donk Brothers Coal & Coke Company's No. 2 mine, Maryville, Madison County. He leaves a widow.

March 10, 1917, Jonah Mayer, miner, age 65 years, married, was killed by falling clod in Donk Brothers Coal & Coke Company's No. 1 mine,

Donkville, Madison County. He leaves a widow.

April 6, 1917, Nicholas Koheman, miner, age 34 years, married, was killed by falling slate in Kerns-Donnewald Coal Company's mine, Worden, Madison County. He leaves a widow and five children.

April 27, 1917, Joe Piazzie, machine helper, age 33 years, single, was

April 21, 1911, Joe Fiazzie, machine neiper, age 33 years, single, was killed in Donk Brothers Coal and Coke Company's No. 2 mine, Maryville, Madison County, by a fall of coal.

Respectfully submitted,

ROBERT PETTIGREW, State Inspector of Mines, Troy, Illinois.

### FATAL CASUALTIES, EIGHTH DISTRICT, JUNE 30, 1917.

Date.	Name,	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
Oct. 10 Nov. 3 6 10 17 21	Martin Rassau. Panl Ruhl. N S. Parkinson Mike Tinekite Charles Vickroy Anton Tomulionis John Seroki. John Bouman Pete Lutvemapeck Barney Sobut Edward McClain.	21 42 43 30 45 21	do	Troy New Baden Staunton Livingston do.	1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 4	3 4 1 3	Pit car. Pit car. Pit car. Railroad cars Pit cars. Pit cars. Falling coal. Falling state. Falling rock. Falling state. Falling coal.

# FATAL CASUALTIES, EIGHTH DISTRICT, JUNE 30, 1917—concluded.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
Feb. 9 Mar. 10 Apr. 6	Louis Wille. Wm. Tweede. Wm. Holger Jonah Mayer. Nicholas Koheman. Jde Piazzie. Total.	36 65 34 33	Minerdo do Machine helper	CollinsvilledoWordenMaryville	1 1	1	1 1 1	5	1 6	Falling coal. Falling clod. Falling slate. Falling coal.

## RECAPITULATION OF FATAL ACCIDENTS, EIGHTH DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Collinsville Livingston Maryville New Baden Sandoval Staunton Troy, Worden	2 2 2 1 2 1	Drivers. Laborers. Machine helpers. Machine runners. Miners.	2 2	Electrocuted. Falling clod. Falling coal. Falling rock. Falling slate. Pit cars. Railroad cars.	1 4 1 4 5	Donk Bros. C. & C. Co. Kerns Donnewald C.Co. Lumaghi Coal Co. Marion Co. Coal Co. Mt. Olive & S. C. Co. New Staunton Coal Co. Southern C. C. & M. Co.	1 1 2
Total	17		17		17		1

## NONFATAL CASUALTIES, EIGHTH DISTRICT, JUNE 30, 1917.

Date.	Name.	Age.	Residence.	Married.	Single.	Child en.	Dependents.	Character of injury and cause of accident.	Time lost—days.
111 24 Aug. 1 12 24 11 19 25 29 30 30 31 31 Sept. 6 8 8 9 9 11 12 13 14 14 18 19 25 25 26	H, H. Hoskinson. Ben Koch. Geo. Aris. John Anderson. Bud Knight. Ray Smith. Wm. Burlan. John W. Pickering. Tony Lucas. Louis Vannerger. John Wamekenskl. Lucun Kennett. Lucun Kennett. Chas. Pryde. Pete Peila. Geo. Burgess. Stanley Haluek Rimonda Cassona Mike Konopski. Wm. Firke, Sr. Thomas Smith. Ed. Hill. Alvin Jubett, Jr. S. Sapinto. Loe Mlekush. Chanes Hardiek.	3x 23 42 32 26 46 38 45 49 50 28 34 48 23 22 41 29 30 69 40 24 21 21 22	Breese. Livingston. Williamson. Centralia. do. Glen Carbon. Pocabontas. Maryville. Trenton. Troy. Collinsville. New Baden. Sandoval. Collinsville. Maryville. Livingston. Maryville. Maryville. Maryville. Livingston. Maryville. Sandoval. Livingston. Maryville. Solventon. Maryville. Maryville. Maryville. Maryville. Maryville. Solventon. Maryville. Maryv		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		44 3 3 1 5 7 1 1 	Ribs broken, falling coal Leg broken, not stated Foot injured, pit car Body injured, fell off car Kib broken, machine Leg broken, machine Leg broken, machine Leg broken, machine Body injured, pit car Leg injured, pit car Shoulder broken, pit car Leg injured, cliling cross har Kibs broken, falling state Leg injured, cliling cross har Kibs broken, falling state Leg injured, falling coal Leg broken, pit car Finger injured, falling coal Leg broken, falling coal Rody injured, fiel on rail Finger broken, falling coal Ankle injured, pit car Toe injured, falling clod Finger finjured, pit car Leg broken, falling clod Leg broken, falling clod Back injured, pit car Leg broken, falling clod Back injured, fiel off car Back injured, fiel off car Finger injured, fiel off car Back injured, fiel off car Leg broken, falling state	138 110 68 48 54 * 50 53 35 35 35 30 120 44 40 83 33 32 150 172 43 43 40 30

# NONFATAL CASUALTIES, EIGHTH DISTRICT, JUNE 30, 1017—continued.

				_					
Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1916		Π	!		'				
Oct. 5	Frank Zorgie Thos. Bunn Pete Ilouis John Yorrichno Dom Ottins. Andrew Kidas. Earnest Jester Joseph scott Edward Prima Bert, Biggins Angelo Fosel E. Duckett E. Duckett Mike Dugas. Thomas Slatan Sam Garback Wm. Sleto Bunn Sam Garback Wm. Sleto Lames Curcura	19	Williamson	ļ	1			Leg injured, jumped off car	39
10	Thos. Bunn	18	New Baden	١.;	1		;	Leg injured, jumped off car Shoulder injured, mule. Hand injured, falling slate. Foot injured, falling slate. Eye injured, falling timber Eye injured, flying coal Foot injured falling clod. Leg burned, hot ashes. Finger cut off, falling coal Leg broken pit car. Leg broken, cage. Body burned, gas explosion do	60
14	Pete Houis	50	Collinsville	1 1		;	2	Foot injured, falling slate	35
21	Dom Ottins	34	New Douglas	î		2	3	Eve injured, flying coal.	239
21	Andrew Kidas	60	Edwardsville		1			Foot injured falling clod	31
23	Earnest Jester	40	Maryville	1	٠;	4	5	Leg burned, hot ashes	44
28	Formard Primes	32	Clop Corbon		1		1	Log broken pit car	30 158
30	Bert. Biggins	35	Collinsville	i		3	4	Leg broken, cage	150
Nov. 11	Angelo Fosel	39	Livingston	1		4	5	Body burned, gas explosion	101
11	V. Seganfede	28	do		1				
15	E. Duckett	33	Edwardsville	(·i	1		· · · · i	Back injured, falling cross bar	35 87
20	Wm Gestant	35	Livingston.	1	i			Arm broken, pit car	70
29	Mike Dugas	68	do	1		2	3	Finger injured, falling rock	34
Dec. 2	Thomas Slatan	37	Odin	1		3	4	Leg broken, kicked by mule	60
2	Sam Garback	35	Maryville	1			1 7	Back injured, falling cross bar Leg broken, falling clod Arm broken, pit car Finger injured, falling rock, Leg broken, kicked by mule Leg injured, falling coal Body injured, railroad car Toe injured, falling coal Rib broken falling slate Leg broken, falling coal Foo injured, falling coal	45 60
6	Wm. Sido. Ed. Groetz. James Curcura Albert Koehler John Dalposso. Pete Hollovich. A. Priczkitius Andy Ackerman. Andy Ackerman. Walter Hearne. Chas. Hamor. Jno. Romanitus Frank Nordman. Fritz Shomfeld.	56	Collinsville	i		6	4	Toe injured, falling coal	30
7	James Curcura	38	Livingston	1		1	2	Rib broken, falling slate	32
7	Albert Kochler	48	Edwardsville	1	٠.		1	Leg broken, falling clod	100
9	John Dalposso	26	Staunton		1			Foot injured, falling coal	89
13	Pete Hollovich	20	Marvaille		1			Foo injured, fating coat Fye injured, pit ear. Eye injured, flying coal Leg broken, falling clod Head injured, falling slate Leg injured, falling slate Body injured, falling slate Stouder broken, falling slate Foot broken, falling slate Foot broken, falling slate Foot injured, not stated	74
19	Andy Ackerman	25	Edwardsville	ì		2	3	Leg broken, falling clod	98
19	Geo. Jacobat	45	Collinsville		1			Head injured, falling slate	76 32 32 62
24	Walter Hearne	35	Maryville	1		4	5	Leg injured, falling slate	32
26	Chas. Hamor	36	Edwardsville	1	.:	6	7	Body injured, fallingcoal	82
28	Frank Nordman	35	Broose	l'i	1	7	8	Foot broken falling slate	66
30	Fritz Shomfeld	53	do	Î			1	Foot injured, not stated	44
1917		100		١.		_			,
Jan. 4	Fred Timmerman	22	Germantown	1	٠.	7	8	Foot broken, falling slate	66 49
4	Max Angello	22	New Radon	ŀ;	1			Footinjured, pit car Arm broken, shot explosion	90
8	Paul Comper	28	Centralia	1.	i			Back injured falling coal	30
10	Morris Fosi	35	Livingston	1	1			Back injured, falling coal	49
11	Evagelos Elenio	30	do		1	;		Leginjured, pit car	74
15	Joe Fornero	40	Collingville	1	i	4	5	Finger broken pit car	135 63
17	H Sanders	18	do		1		· · · i	Ankle injured, pit car	56
17	John Modene	20	Glen Carbon		1			Foot broken, switch frog	34
19	J. Berterello	48	Troy	1		5	6	Hand injured, falling state	30
23	Henry Dupont	17	Maryville	٠;	1	···i		Foot broken machine	69 120
25	R Phonis	20	Sandoval	li	::	3	4	Shoulder broken, pit car	30
27	Ed. Mayberry	28	do	î			4	Leg injured, pit cars	30
27	W J. Coatney	48	Glen Carbon	1	i		1	Leg injured, pit ear Leg broken, machine Finger broken, pit ear Ankle injured, pit ear Foot broken, switch frog. Hand injured, falling slate Finger ent off, pit ear Foot broken, machine Shoulder broken, pit ear Leg injured, pit ears. Body injured, flying coal Foot broken, falling slate Leg broken, falling rock Leg broken, falling rock Leg broken, falling food Fingers injured, jack pipe Leg broken, falling fook Shoulder injured, pit ear do.	35 45
29	Joe Guger	44	New Baden	.;	1	····5	····è	Leg broken, falling state	*
30	Henry Brower	42	O'Fallon	1	::	6	7	Leg broken, falling coal	*
Feb. 2	Geo. Schiller	38	Collinsville	1		4	5	Fingers injured, jack pipe	33
3	Samuel Cartwright.	48	Edwardsville	1			1	Leg broken, falling rock	*
′ 5	Joe Burian	28	Glen Carbon	1	-;		1	Shoulder injured, pit car	38 35
6	Wm. Parrish	25	Troy	٠;	1			Rody injured pitear	134
7	Hy. Venhans, Sr.	48	Breese	î	::	3	4	Legs broken, falling coal	-
9	Frank Swain	63	Worden	1		2	1	Foot injured, falling clod	44
10	Fred Chestinick	16	Livingston	٠.;	1			Evo injured, pit car	40 30
10	Thos. O'Laughlin	56	Troy	1		· · · i	3	Leg injured, falling coal	31
12	F. Ramshaw	27	do		i			Finger broken, falling timber	30
12	Louis Pettino	30	Collinsville		1			Ankle injured, jack pipe	34
13	L. Friend	24	Sandoval	.;	1	;		Leg broken, falling clod	60 37
17	M. H. Mantie	48	Williamson	1		1	2	Leg broken, falling rail	113
10	Jerry Dewey	35	Collinsville.		ì			Body injured, pit car	38
19	Edward Linck	27	New Baden	1	i	3	4	Leg broken, pit car	90
19	Frank Nordman. Frank Nordman. Fritz Shomield Fred Timmerman. Max Angello. August Munkoth. Paul Comper. Morris Fosi. Morris Fosi. Josephan Schwab. H. Sanders. John Modene. J. Bertcrello. Henry Dupont. Angelo Cordonia R. Phenis. Ed. Mayberry. W. J. Coatney. Joe Guger. Andy Novatney. Henry Brewer. Geo. Schiller. Samuel Cartwright. Joe Burlan. Wm. Parrish. S. S. Avis. S. S. Avis. S. S. Avis. Hy. Venhans, Sr. Frank Swain. Fred Chestinick. L. Hagaughlin. L. Hagaughlin. L. Hagaughlin. L. Friend. R. H. Mantle. Morgan Reese. Jerry Dewey. Edward Linck. B. Sinski. Jas, Chiado.	35	Troy	٠;	1			Shoulder injured, pit ear do. do. do. do. do. do. do. journed, pit ear. Legs broken, falling coal. Foot injured, falling coal. Foot injured, falling coal. Body injured, pit ear. Eye injured, filling coal. Eig injured, falling coal. Finger broken, falling coal. Finger broken, falling flob. Foot injured, jack pipe. Leg broken, falling slate. Leg broken, falling rail. Body injured, pit ear. Leg broken, pit car. Leg broken, flying sulphur. Eye injured, flying sulphur.	44 62
20	Jas, Chiado	30	Commsville	1		2	3	Lye mjured, Lymg coar	32
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# NONFATAL CASUALTIES, EIGHTH DISTRICT, JUNE 30, 1017—continued.

Date	э.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependent	Character of injury and cause of accident.	Time lost-
1917	7									
Feb.	20	Tony Delposo Hy Herman. Nat. Stefani. Chas. Schleeta Missinio Libbra Geo. Whyers G. Berto M. Komensky Antone Pehmagel. Herman Wille.	21	Worden		1			Leg broken, falling coal Hand broken, struck jack screw	1
	22	Nat. Stefani	32	Williamson	i		3	4	Foot injured falling rock	
	26	Chas. Schleeta	35	Staunton	1		4	5	Finger cut off, machine	1
Mar.	2	Missinio Libbra	35	Livingston	1	-;	3	4	Finger cut off, machine Foot broken, falling slate Leg broken, pit car	1
	6	G. Berto.	25	Livingston		î				
	6	M. Komensky	52	Glen Carbon	٠:	1		:		
	7	Antone Penmagel	38	Marweille	1		3	1 4		1
	S	Herman Wille Joe Whyers Ed. Mengelkamp Wm. Haddick	28	Edwardsville	î		ĭ	2	Shoulder broken, laining state	4
	8	Ed. Mengelkamp	16	Staunton	-;	1	;	· · · i	Toe broken, pit car	1
	8	Andrew Samke	34	Livingston	1		2		Eye injured, flying coal Finger injured, lifting coal	
	10	Dominic Lero	31	do	1		2	3	Back injured, falling clod	İ
	10	Andrew Samke Dominic Lero Gus Wicker Geo. Mellulis	54	Centralia	1			1	Foot broken, falling coal	
								1	Leg injured, pit car	
	19	Jim Samson	46	Livingston	1	-:	4	5	Finger broken, falling slate	
	20	Floyd Herrin	25	Breese	i	1	····i		Hand broken, pit cars	
	24	Jim Samson	36	Glen Carbon	î			1	Eye injured, flying coal	-1
	27	Chas, Swain. Pete Gorie B. Cerasoni Bert Manley Adam Kreiter Alonzo Hogan Dewey Wilkerson.	30	Worden	1:	1		• • • • •	Finger injured, machine	
	31	B Cerasoni	37	Collinsville	i		4	2	Leg injured, cage	1
pr.	4	Bert Manley	45	Breese	î		3	4	Back injured, lifting coal Finger injured, nail Finger injured, not stated.	
	4	Adam Kreiter	23	do	-:	1			Finger injured, not stated	
	6	Dewey Wilkerson	19	Glen Carbon	1.	i		1	Finger injured, pick	
	6	Jas. Rable	43	Carlyle	1		5	- 6	Arm injured, pit car	١.
	7	Shearman Uhls	44	Odin	1		6 3	7	Leg broken, falling slate	1
	10	Dewey Wilkerson. Jas. Rable Shearman Uhls Ed. Wallman Andy Young. George Swickand John Ugolia. F. Berning. John Vaneck. Bornie Norock. Wm. Hoeing. Matt. Frankovich. Anton Fommers. Vito Fumiati.	40	Beckemeyer	1		2		Body injured, falling coal	
	13	George Swickand	30	Centralia	1			1	Leg broken, falling coal	
	14	John Ugolia	32	Controlio	1	1.	2	3	Back injured, lifting slate	
	19	John Vaneck	40	Glen Carbon		1			Shoulder broken, motor Shoulder injured, falling prop	İ
	23	Bornie Norock	30	Livingston		1	3		Ankle injured, falling slate	
	25	Wm. Hoeing	18	Livingston	1		6	3	Eye injured, flying coal	1
	30	Anton Fommers	23	Breese		i			Head injured, tail chain. Ankle injured, not stated. Pelvis broken, falling coal.	
lay	2	Vito Fumiati	38	Livingston	1	. :	8	9	Pelvis broken, falling coal	
	3	Frank Flovanich Jno. Bibcoe Ed. Lewis. Gideon Simpson Dominic Sobut Fred Sartori Lawrence Pomatto.	24	Maryville	i	1		1	Finger broken, car door Leg broken, falling slate	
	5	Ed. Lewis	58	Worden	1		1 3	2	Leg broken, falling slate Ankle injured, falling clod Leg broken, pit car	
	10	Gideon Simpson	21	Collinsville		1	3	3	Leg broken, pit cardo	
	11	Fred Sartori	28	do		1			.do.	1
	14	Lawrence Pomatto. George Arys. Joe Voss. Chas. Goodall. Lonis Gornero John Mastalich. Frank Domersick	19	do		1			do Head injured, falling slate	-
	14	Ine Voss	22	Breese	l·;	1		·i	Arm injured, pit car. Finger broken, pit car. Foot injured, motor.	
	16	Chas. Goodall	30	New Baden	1		4	5	Foot injured, motor	
	16	Lonis Gornero	27	Maryville	1		;	1	Ribs broken, pit car	
	19	Frank Domersick	36	Livingston	1	i	1		Leg broken, pit car	
	19	Frank Domersick. Frank Kaiser. Thos. Gannon Fred Schwer. Inc. McGrath	42	Collinsville	1		2	3	Leg broken, pit car Leg broken, falling slate	
	19	Thos. Gannon	56	Edwardsville	1	1:			Body injured, falling slate	
	23	Jas. McGrath	42	Glen Carbon	1		2	3	Ankle sprained, not stated Rib broken, falling slate	
	25	Jas. McGrath Pete Zelphus	133	Livingston	1		1	2	Leg injured, machine	-
	26	Enoch Mojaika	39	Beckemeyer		1			Rib broken, falling slate. Leg injured, machine Leg broken, pit car Collar bone broken, pit cars Foot injured, eage Toe broken, talling slate. Arm injured, pit car Foot injured, pit car Foot injured, pit car Hand injured, pit car Hand injured, pit car Hand injured, pit car Hand injured, pit car Hand injured, falling coal Leg injured, falling coal	
une	6	Carl Oehler	17	Staunton		1			Foot injured, cage.	
	7	D. Comdomitti	48	Collinsville	1		6	7	Toe broken, talling slate	
	8	Wm. Wachowie	19	Glen Carbon		1			Fort injured, falling rail	•
	11	Geo. Milicevic	23	Williamson		1			Arm broken, pit car	
	12	Fay Fenwick	18	Livingston		1			Hand injured, pit car	
	15	B. Barto	34	Maryville.		1			Back injured, falling slate	
	16	Dom Yonks	55	Centralia		1			Hand injured, falling coal.	
		K. Hacklatimier.	125	Maryville		1			Leginured, pit car	

# NONFATAL CASUALTIES, EIGHTH DISTRICT, JUNE 30, 1017—concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
20 21 21 23 23 23 25 25	Wm. Miller Pete Orico Fred Soens John Demartins Aug. Knemoeller Angelo Cordonia Geo. East. Jos. Zelinek Wm. De Vries Total	30 18 40 38 40 45 35 26	Williamsondo Livingston Staunton Maryville Collinsvilledo	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i i i	3	2 2 2	Leg broken, falling slate Leg injured, pit cars. Toe injured, jack pipe. Leg injured, machine Body injured, pit car Leg broken, pit car	* * * 30 * * *
Number Number	ot returned to work r injured r not returned			178 52 26				t by men returned, days	

## RECAPITULATION OF NONFATAL ACCIDENTS, EIGHTH DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Beckemeyer Brosee Carlyle Centralia Collinsville Edwardsville Germantown Glen Carbon Glenridge Livingston Maryville New Baden New Douglas Odln O'Fallon Pocalontas Sandoval Trent Williamson Worden	9 1 8 25 11 12 133 18 1 1 5 11 1 9	Asst. mine manager Blacksmith Gagers Drivers Electrician Foreman Laborers Loaders Machine helpers Machine helpers Machine runners Miners Motorman Trimbermen Trackman Trappers Trip riders	1 3 35 1 1 1 17 24 5 17 56 3 4 1 3	Cage Palling clod Falling coal Falling coal Falling rock Falling state Falling state Falling state Fell Gas explosion Lifting objects Machine Motor Mule Pit cars Railroad cars Shot explosion Struck by objects Not stated	23 4 29 6 9 2 3 8 2 4 48 1	Breese-Trenton M. Co Chicago-Sandoval C. Co. Chicago-Sandoval C. Co. City Coal Co	5 3 5 44 3 5 11 12 2 9 21 35 3 3

RECAPITULATION OF NONFATAL CASUALTIES, NATURE OF INJURIES, CON-JUGAL RELATIONS, AND TIME LOST, EIGHTH DISTRICT, JUNE 30, 1917.

	٠			ъ.	ents.	Time los	t—days.	nrios	
Nature of injuries.	Number	Married	Single.	Children	Dependents.	Total.	Aver-	Percentage of Injuries.	
Ankle injured¹ Arm broken¹ Arm broken¹ Arm injured¹ Back injured² Body burned Body burned Body burned Body burned Body burned Body burned Eye injured Flinger broken Flinger broken¹ Flinger eut off Flinger injured¹ Foot broken¹ Hand broken⁴ Hand injured² Hand broken⁴ Head injured¹ Head injured³ Leg injured¹ Hey broken² Body Body Body Body Body Body Body Body	77 3 4 8 8 2 2 13 11 9 9 7 7 7 3 3 3 11 1 5 3 3 3 5 5 3 6 6 6 4 4 4 3 3 3 3	1 1 1 1 1 1 9 6 3 1 1 5 5 6 6 2 2 2 4 1 1 6 3 1 1 2 2 1 1 1 1 6 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 2 2 3 5 5 1 1 1 1 3 3 4 2 6 6 3 9 9 3 1 1 3 3 1 1 2 4 4 8 1	1 5 5 4 19 8 7 4 11 18 11 11 26 8 9 10 6 10 225	3 1 6 8 8 5 28 	295 160 150 130 130 175 536 30 642 333 159 500 466 504 466 505 65 106 2,036 483 150 160 244 190 76 63	49.17 80.00 50.00 32.50 87.66 33.00 30.00 71.33 55.50 35.66 57 45.45 35.00 37.50 37.50 37.50 48.85 40.00 48.85 40.00 48.85 40.00 48.85 47.60 59.90	3. 9 1. 6 2. 2. 4 4. 4 1. 1 7. 3 5. 5 5. 0 9 1. 6 6. 1 1. 6 2. 8 20. 2 2. 2 2. 2 1. 6 1. 6 1. 6 1. 6 1. 6 1. 6 1. 6 1. 6	

<sup>1</sup> One not returned to work.
2 Four not returned to work.
3 Three not returned to work.
4 Two not returned to work.
5 Sixteen not returned to work.

					Disposi	tion of ou	ıtput.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
1	SHIPPING MINES. Pocahontas M. Co., No. 1	Pocahontas	107,895	79,882		20,000	4,013	4,000

Mines in 1916, 1. Mines in 1917, 1.

### CLINTON COUNTY,

SHIPPING MINES.  1 Southern C., C. & M. Co., No. 9 New Baden. 2 Breese Trenton M. Co., Buxton Beckemeyer. 3 No. Breese C. M. Co., N. Mine. Breese Hernton M. Co., E. B	319,630 278,229 234,396	161,168 206,635 139,195 90,555	61,681	63,043 16,694	9,310	8,551 7,516 4,144
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Mines in 1916, 4. New mines, 1. Mines in 1917, 5.

## MADISON COUNTY,

=								
	SHIPPING MINES.							
1	New Staunton C. Co., No. 1	Livingston	937,004	924,507			5,225	7,272
2	Mt. Olive & Staunton Coal Co.,	Staunton	901,881	079 076			2,404	26,401
2	No. 2. Donk Bros, C, & C. Co., No. 2	Maryville	866,317		1 569		1,877	13,848
4	Donk Bros. C. & C. Co., No. 1	Collinsville	548,977	535,269	63		359	13,286
- 5	Lumaghi Coal Co., No. 2	do	410,721	350,577		54.496		5,648
6	Madison C. Corp. No. 2	Glen Carbon.	386,880	369,123			3,308	14,449
7	Kerns Donnewald Coal Co	Worden	324,295	106,126		210,163	4,102	3,904
- 8	Donk Bros. C. & C. Co., No. 3	Troy	259,591	246,333			5,850	7,408
9	Mt. Olive & Staunton Coal Co.,							
10	No. 1.	Staunton	144,297		6,742	100 100	754	
	Lumaghi Coal Co., No. 3	Collinsville	110,038			109,123	15,024	915 3,895
12	City Coal Co., No. 3 Madison County Mining Co	Edwardsville.	43,317 35,414		3,420		2.164	1,000
	Abbey Coal Corp., No. 1		23,165				20,513	1,000
14	East Side Coal Co		19,580	1,357				320
	Beck White Coal Co., No. 1		1,280					
		i						
	Total		5,012,787	4,442,262	13,793	373,782	79,483	103,467
	LOCAL MINES.							
1	Bunker Hill Coal Co	Collinsville	11,568				11,158	410
2	Hydrolic Press Brick Co	do	6,683					6,683
3	Bullock Bros	do	5,982				5,173	809
4	Fred Humm	Bethalto					3,641	
5	George Kabel	Moro						
6	Benj. Eccles	Alton	800					
	Ernest H. Rink.		100					
8	Chas. Brucggemann Henry Bauer	do						
10	A. Decoto.	do	35					
11	John Kowalzik	Worden						
	Total		31.474				23,564	7,910
	Total—26 mines		5,044,261	4,442,262	13,793	373,783	103,047	111,377
					-			

## EIGHTH DISTRICT, 1917.

used for	ple ex-	tic	pec- ons	operation.		Tons	mined.	number		eci-	in use.	under-		oal wash other sp eparing	ecial	
Kegs of powder use blasting.	Pounds of permissible explosives used.	State inspector.	County inspector.	Days of active oper	Total employees.	By hand.	By machine.	Mining machines— in use.	Killed.	Injured.	Number of motors	Number of animals ground.	Number in use.	Average daily capacity.	Tons prepared during the year.	Number.
5,692		3		210	129	107,895				1	1	10				1

## EIGHTH DISTRICT, 1917.

5,536	 1	1	225	518	47,701	451,939	24	2	8	5	22	1	1,000	108,520	1
3,607	 3	1	191	251		319,630			5	2	13				2
3,262	 3	1	173	258		278,229			3	2	15				3
2,880	 3	1	206			234,396	6		3	4	10				4
4,102	 3		98	173	94,699				5	2	10				- 5
	 	-		-				-					4 000		
19,387	 13	4	173	1,401	142,400	1,284.194	50	2	24	15	70	1	1,000	108,520	
- 1									1						

# EIGHTH DISTRICT, 1917.

1	1			- 1					1		1	1	1	1		
4,740 9,449 23,129 4,389 3,457 2,763	150		i	216 252 291 271 195 233 288 263	647 637 588 391 426 348 266 291	548,977 127,259	937,004 901,881 866,317 410,721 386,880 324,295 132,332	17 16 22 21 30 7 6	3 1 4	1	2 4 3 7	37 39 26 21 27 17 21	i			1 2 3 4 5 6 7 8
4,017 - 595 1,531 - 848 - 752 - 47	250	2 2 2 2 3 2 2 2 40	1 2 2 2 6	152 148 236 175 304 252 12	213 169 71 50 26 20 51 4,194	23,165 19,580 1,280	144,297 43,317 4,147,044	6		3 2 3 2 136	1	3				9 10 11 12 13 14 15
178 . 40 . 30 . 1		5 3 4 2 2 2 2 1 1 2 1 1 25	1 1  2	260 184 247 200 280 200 80 50 110 20 14 150 190	14 6 8 7 5 3 3 2 2 1 1 5 2 4,246	6,683 5,982 3,649 2,200 800 217 180 152 35 8		1						933	350, 411	1 2 3 4 5 6 7 8 9 10 11

### MARION COUNTY,

					Disposi	tion of ou	itput.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tous loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to railroad companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
2 3	SHIPTING MINES.  Marion County C. Co., No. 1. Chicago, Sandoval C. Co., No. 2 Odin Coal Co. Chicago, Sandoval C. Co., No. 1  Total	Sandoval	557,458 281,695 239,369 10,097 1,088,619	146,481		118,210 79,873 77,891 9,785 285,759	836 9,435 3,682 	7,259 6,767 11,315 312 25,653

Mines in 1916, 4. Mines in 1917, 4.

### SHIPPING MINES, RECAPITULATION BY

					Disposi	tion of ou	ıtput.		l for	ole ex-
Number.	Counties.	Number of mines.	Total output.	Tons loaded on cars for ship-ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road-companies and loaded on cars.	Sold to local trade.	Consumed or wasted at the mine.	Kegs of powder used blasting.	Pounds of permissible ex- plosives used.
2	Bond Cliaton Madison Marion Total	1 5 15 4 25	107,895 1,426,594 5,012,787 1,088,619 7,635,895	79,882 1,062,925 4,442,262 763,254 6,348,323		373,782 285,759	18,545 79,483 13,953	4,000 59,351 103,467 25,653 192,471	5,692 19,387 68,540 20,246 113,865	250

## LOCAL MINES, RECAPITULATION BY

1	Madison	11	31.474				23,564	7,910	553	<u>-</u>
	The district	36	7,667,369	6,318,323	75,474	903,633	139,558	200,381	114,418	250

### ALL MINES, RECAPITULATION BY

3	Bond Clinton Madison Marion	5 26	1,062,925 4,442,262	61,681 13,793	224,092 373,782	18,545 103,047	59,351 111,377	19,387 69,093	250
*	Total		 6,348,323						

Whole number of mines reported for 1916, 31 N imber of new an I reopened mines during the year, 6. N imber of mines abandoned during the year, 1. Whole number of mines reported for 1917, 36.

## EIGHTH DISTRICT, 1917.

ed for	ble ex-	Insp tion	ns	operation.		Tons 1	nined.	number	Acden		in use.	s under-		oal wash other spe erparing	ecial	
Kegs of powder used blasting.	Pounds of permissible plosive used.	State inspector.	County inspector.	Days of active oper	Total employees.	By hand.	By machine.	Mining machines— in use.	Killed.	Injured.	Number of motors	Number of animals ground.	Number in use.	Average daily eapacity.	Tons prepared during the year.	Number
5,476 12,197 2,215 358 20,246		2 6 4 1 13	3 4 5 	276 220 263 18	504 178 250 113	148,428 281,695 10,097 440,220	409,030 239,369 648,399	10	1	9 5 3	33 4	s				

## COUNTIES, EIGHTH DISTRICT, 1917.

ation.		Tons n	nined.	·S.	Accid	lents.	in use.	nd.		ashers or ial prepa plant.		
Days of active operation.	Total employees.	By hand.	By machine.	Number of machines,	Killed.	Injured.	Number of motors i	Animals underground	Number in use.	Average daily capacity.	Tons prepared during the year.	Number.
210 178 219 194 207	129 1,401 4,194 1,045 6,769	107,895 142,400 865,743 440,220 1,556,258	1,284,194 4,147,044 648,399	50 130 27 207	14	136	1 15 30 10 56	10 70 274 53 407	1 3	1,000 933  950	350,411	1 2 3 4

# COUNTIES, EIGHTH DISTRICT, 1917.

												_
150	52	19,906	11,568	1								1
189	6,821	1,576,164	6,091,205	208	17	178	56	407	4	950	458,931	

# COUNTIES, EIGHTH DISTRICT, 1917.

210 178 190 194	1,401 4,246	142,400 885,649	1,284,194 4,158,612 648,399	50 131	14	1 24 136 17	1 15 30 10	10 70 274 53	 	
189	6,821	1,576,164	6,091,205	208	17	178	56	407	 	

### NINTH INSPECTION DISTRICT.

COUNTY-ST. CLAIR. THOS. C. WRIGHT, Inspector.

Hon. Evan D. John. Director, Department of Mines and Minerals, Springfield.

SIR: I have the honor to submit to you the annual report of this, the Ninth District, comprising the coal producing county of Si. Clair.

#### SUMMARY OF THE ITEMS IN THE REPORT.

Number of counties producing coal 1
Number of shipping mines
Number of local mines
Number of new or reopened mines
Number of closed or abandoned mines
Number of men underground
Number of boys underground
Number of men outside the mine
Number of boys outside the mine
Total number of employees
Total tons of coal produced
Days of active operation, all mines
Kegs of powder used for blasting coal
Number of fatal accidents
Number of nonfatal accidents
Number of employees to each fatal accident
Number of employees to each nonfatal accident
Tons of coal produced to each nonfatal accident
Tons of coal produced to each fatal accident. 575,565  Tons of coal produced to each nonfatal accident. 87,207  Ratio of fatal accidents per 1,000 employees. 1.87  The following table gives the output, the days worked and the number

The following table gives the output, the days worked and the number of men employed, 1917 and 1916, with the increase or decrease:

	1	1917		1	.916		Incr	ease.		De	crea	se.
County.	Output- tons.	Days worked.	Men em- ployed.	Output- tons.	Days worked.	Men em- ployed.	Tons.	Days.	Men.	Tons.	Days.	Men.
St. Clair	5,755,650	195	5,360	3,315,650	161	4,047	2,240,000	34	1,313			

#### NEW AND REOPENED MINES.

One new mine, Lippert and Shore, Millstadt, has been opened and nine which had been closed for some time have been reopened. They are: St. Louis & O'Fallon, No. 1, East St. Louis; Southern Coal, Coke and Mining Co., No. 1; Guest Coal Co., W. L. Scott Coal Co., Belleville; Lenzburg Coal Co., Lenzburg; Glendale Coal & Mining Co.; Jack Run Coal Co., Freeburg;

Kolb Coal Co., Vinegar Hill mine, New Athens; Enterprise Colliery Co., Rentchler.

#### ABANDONED MINES.

Diamond Joe Coal Company, Millstadt.

#### CHANGE OF NAME.

Dozow Valley to Forsyth Coal Co.; Fisher Fuel Co. to St. Ellen Coal Co.; Missouri & Illinois Coal Co., Rentchler mine, to White & Sargent Coal Co.: Mueller & Buxton to John Buxton; Reeb Bros, to Radium Coal Co.

#### IMPROVEMENTS.

The Victoria Coal Co., has discarded the gasoline motor and installed an electric motor on the main haulage road.

The Radium Coal Co., formally the Reeb Coal Co., is sinking a new

hoisting shaft at Radium mine.

The Groom Coal Co. has installed a new shaker engine and a new fan,

housed in concrete, at Richland mine.

The Jack Run Coal Co. has installed a pair of first motion hoisting engines at St. Clair mine. This mine was formally owned by the Missouri and Illinois Coal Co.

The Golden Rule Coal Co. has built a new fireproof boiler house to

replace the one blown away by a cyclone.

The Egyptian Coal Co. has made quite a lot of improvements at the Meek mine, such as putting in new boilers, first motion hoisting engines, new generator and building a new machine shop.

The Southern Coal, Coke & Mining Co., is installing electric gathering

motors of the storage battery type at No. 8 mine.

The Pittsburg Coal Co. installed a two-stage centrifugal pump driven by a three-phase electric motor.

The International Coal Co. installed chemical fire extinguishing engines at Taylor and Carbon mines.

The Summit Coal Co. has installed a rope haulage system.

The Eldnar Coal Co. installed another new 72-inch boiler.

The Oakdale Coal Co. installed a new 72-inch boiler.

The Kolb Coal Co. has installed a coal crusher at No. 1 mine.

### FATAL ACCIDENTS.

July 14, 1916, Andrew Wilson, laborer, age 20 years, single, was killed by railroad cars, at the Southern Coal, Coke & Mining Company's No. 7 mine, Belleville, St. Clair County.

July 19, 1916, Louis Eichorn, miner, age 29 years, married, was killed in St. Louis & O'Fallon Coal Company's mine, East St. Louis, St. Clair County,

by a fall of slate. He leaves a widow and one child.

September 3, 1916, Gus Cast, shot firer, age 25 years, married, was killed by shot blown through a cross-cut, in Kolb Coal Company's No. 1 mine, Mascoutah, St. Clair County. He leaves a widow and one child. October 5, 1916, Joseph Stehlick, machine helper, age 27 years, married,

was killed in St. Louis & O'Fallon Coal Company's No. 2 mine, East St. Louis, St. Clair County, by falling slate. He leaves a widow and one child.

December 2, 1916, Hiram Hood, machine runner, age 36 years, married, employed in Consolidated Coal Company's No. 17 mine, Collinsville, was killed by falling slate. He leaves a widow and five children.

March 3, 1917, John Schuetz, machine runner, age 59 years, married, was killed in International Coal & Mining Company's mine, Belleville, St. Clair County, by falling coal.

March 10, 1917, Walter Berger, driver, was killed by pit cars in Eldnar

Coal Company's mine, Belleville, St. Clair County.

May 31, 1917, Fred Hoppwood, driver, age 35 years, married, employed in Southern Coal, Coke & Mining Company's No. 1 mine, Belleville, St. Clair County, was kicked by his mule and fell in front of a trip of loaded cars, two of which ran over him, causing death. He leaves a widow and one child.

June 13, 1917, Henry Brod, miner, age 45 years, married, was killed by a fall of clod while loading coal in St. Louis & O'Fallon Coal Company's

mine No. 2, O'Fallon, St. Clair County. He leaves a widow.

June 25, 1917, Leweln Bowen, miner, age 45 years, married, was killed in Prairie Coal Company's mine, O'Fallon, St. Clair County, by falling clod. He leaves a widow and five children.

Respectfully submitted,

T. C. Wright,
Inspector, Belleville, Illinois.

### FATAL CASUALTIES, NINTH DISTRICT, JUNE 30, 1917.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
Dec. 2 r 1917 Mar. 3 10 May 31 June 13	Andrew Wilson. Louis Eichorn Gus Cast. Joseph Stehlick. Hiram Hood  John Schuetz. Walter Berger. Fred Hoppwood. Henry Brod. Leweln Bowen.  Total.	59 18 35 45 45	Mch. runner  Mch. runner  Driverdo  Minerdo.	Bellevilledododododododo	1 1  1	i	1 1 1 1	5 5	1 2	Falling state. Falling coal. Pit car. Kicked by mule. Falling clod. Falling clod.

### RECAPITULATION OF FATAL ACCIDENTS, NINTH DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Belleville Collinsville Mascoutah O'Fallon	1	Drivers Laborer Machine helper Machine runners Miners Shot firer	1	Falling clod. Falling coal. Falling slate. Flying coal Mule, kicked by. Pi• cars Railroad cars.	1 3 1	Consolidated Coal Co Eldnar Coal Co International Coal & Mining Co Kolb Coal Co. Prairie Coal Co. St. Louis & O'Fallon Coal Co Southern C. C. & M. Co.	1 1 1 1 3
Total	10		10		10		10

# NONFATAL CASUALTIES, NINTH DISTRICT, JUNE 30, 1917.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents,	Character of injury and cause of accident.	Time lost—days.
1916						1			
July 10	Adam Scheutz.  Bert Lemen. H. Hood Lewis J. Jones. John Kock. Joseph Nesbit. Wm. Genette Chas. Depple. George Hurst.	31	Belleville	1		3	4	Eye destroyed, flying steel	30
12	Bert Lemen	35	O'Fallon	1		5	3	Wrist broken, fell off car Body injured, machine	75 46
27	Lewis I Jones	48	Casevville	1		5	6	Shoulder injured, falling coal	32
Aug. 28	John Kock	35	O'Fallon		i			Hand injured, motor	30
Sept. 2	Joseph Nesbit	39	E. St. Louis	1		2	3	Ribs broken, mule	48
5 17	Chas Dennie	95	Rolleville	1	i	6		Leg injured, fell down Body injured, falling slate	36 50
18	George Hurst	33	do		î			Finger broken, pit car	48
29	Patrick Taggart H. Bergheger T. Loembardt	49	do	1	٠.	8	9	Leg injured, pit car Leg broken, falling slate	80
Oct. 14	H. Bergheger	48	Mascoutan	• •	1	• • • •		Arm broken, pit car	117
14	T. Loembardt H. Fitze Tony Kovar John Swain Frank Morris Curt Michaelis Agne Antanites	28	Mascoutah		î			Body injured, fell	130
Nov. 4	Tony Kovar	37	Belleville	1		1	2	Body injured, fell. Hand injured, not stated. Head injured, falling prop	34
Dec. 15	John Swain	41	E St Louis	1		1 2	2	Leg injured, mule	30 36
18	Curt Michaelis	19	Belleville		i			Leg burned, steam	60
	Agne Antanites	33	E. St. Louis		1			Head injured, falling rock	48
1917 Jan. 2	Locoph Smoliek	າະ	do	1			1	Back injured, heavy lifting	36
4	Lon Dove	41	Belleville	1		2	3	Head injured, flying cap piece	63
7	Rolla Knight	29	Shiloh	1		3	4	Leg broken, falling coal	42
12	Joseph Smolick Lon Dove. Rolla Knight Chas. Dallas Ambrose Martin	45	O'Fallon	1		5	6	Wrist broken, fell off car Legs burned, hot water Body burned, shot explosion. Toe broken, falling coal	42 70
16	Albert Zimmerman	54	Shiloh.				1	Body burned, shot explosion	90
20	Albert Zimmerman David Bloomer	68	Collinsville	1		7	8	Toe broken, falling coal	48
22	Wm. Tomreleuos	130	do	- 1	l	1	1	Arm broken, falling prop	120
25 31	Charles Nilke	10	Mascoutan	1	ï	3	4	Head injured, falling clod Leg broken, pit car	52
Feb. 1	Jesse Welson. Henry Weilmuenster.	22	Lenzburg		î			Leg injured, pit car	105
5	Robert Kump	40	Lebanon		I			Leg injured, pit car	123 36
11	Jos. Straubinger Fred Freburg Ed. Mann	57	Belleville Collinsville	1		4	5	Finger injured, falling slate Back injured, falling slate	47
			Troy	î		2	3	Finger injured, lell	90
16	J. Boltrushot	37	Collinsville	1	-:	3	4	Arm injured, lifting props	36 30
19	Wilbur Haddick Robt. Fitzgerald	23	Belleville	1	1		····i	Finger injured, pit car	32
							2	Finger broken, sprag Finger injured, machine	30
28	Roy Hopgood	22	Edgemont	1		. 4	5	Back injured, falling slate	47
Mar. 1	Adam Schontz	31	Bollovillo	1		3	5 A	Foot injured, falling slate Shoulder injured, falling coal	90
4	Frank Zazie	19	Birkner Station		1			Arm injured, struck roof	36
6	Clem Toppl	28	E. St. Louis		1			Back injured, pit car Body injured, kicked by mule	60
12	Thomas Mowe	32	Collingville	1			1	Body injured, pit car	67
27	Walter Hansleben	26	Shiloh	i	::	2	3	Leg broken machine	40
28	Michael Gunia. Roy Hopgood. Joseph Kapp. Adam Schentz. Frank Zazie. Clem Toppl. Thomas Mowe. John Rice. Walter Hansleben. Ben Toppl. Louis Bouer	29	Edgemont		1			Back injured, plt car	60
Apr. 6							1 2	Finger broken, falling coal Foot injured, pit car	31
21	Christoforo Deleonar-					-		2 oovingarea, pro construction	1
	do. William Smith Ben Hoeltman	57	St. Louis, Mo	1		6	7	Body injured, fell	36 90
23	William Smith	26	Caseyville	-;	1		;	Leginjured, pit carFinger injured, mule	31
30	John Ferner	28	-do		i			Head injured, mule fell on him	60
May 2	C. Carvelot	56	do	1		6	7	Toe injured, falling coal	35
3	Frank Zajic	20	Belleville	.:	1		;	Hand injured, Dit car	36 130
9	John Ferner C. Carvelot Frank Zajic Mark Williams Jos. Pilkington Albert Tyas.	36	Belleville	1	i,		1	Hand injured, pit car. Leg broken, falling slate Leg injured, kicked by mule Finger injured, caught under	40
15	Albert Tyas	52	do	1		5	6	Finger injured, caught under	0.0
								wedge. Body burned, powder explosion.	36
15 25	Jim Hendrickson Jesse Conklin	34	O'Fallon	1		1 3	4	Leg broken, falling coal	1 10
29	Nicholas Meyer		St. Louis, Mo	1		5			3.4
31	Nicholas Meyer Albert Lilly	45	Collinsville		1	5	5	Arm broken, pit car	36
June 2	John Hurst Franko R. Hund	31	Mascoutab	1	1	5	6	Arm broken, pit car Back injured, prop slipped Body injured, pit car	36
19	R. Hund.	32	do	i		2	3	Wristinjured, pit car	41
		1	1	1	1	1	1	1	1

# NONFATAL CASUALTIES, NINTH DISTRICT, JUNE 30, 1917—concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	days.
1917 June 29 29	Anthony Brukus Nick Evans Total			-	1 24			Eye injured, flying coal	64 55
Number	ot returned to work Ju injured not returned to work nber returned			Ĺ	T	ime vera	lost l	by men returned, days	559 75

## RECAPITULATION OF NONFATAL ACCIDENTS, NINTH DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Belleville. Birkner. Caseyville Collinsville East St. Louis Edgemont. Lebanon Lebanon Lebanon Marcoutah O'Fallon Shiloh Troy St. Louis, Mo.	18 1 2 15 5 2 1 2 1 5 6 4 4 1 3	Cagers. Drivers. Laborers. Laborers. Loaders. Machine helpers. Machine rumers. Mine examiner. Miners. Motorman Trackmen. Trip riders.	18 12 2 2 2 1 22 1 22 1 2	Caught between objects Falling coal. Falling rock Falling state. Fell state. Fell state. Hifting objects. Machine. Motor. Mule. Pit ears. Powder explosion. Struck by objects. Not stated.	1 10 1 8 6 2 3 1 6 16 1 1 9 1	Columbia Coal Co Consolidated Coal Co Luternational C. M. Co. Jones Bros. C. & M. Co. Kolb Coal Co. Lenzburg Coal Co. Prairie Coal Co. St. Louis & O'Fallon Coal Co Southern C. C. & M. Co. Superior Mining Co	111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

RECAPITULATION OF NONFATAL CASUALTIES, NATURE OF INJURIES, CONJUGAL RELATIONS, AND TIME LOST, NINTH DISTRICT, JUNE 30, 1917.

Nature of injuries.	Number.	Married.	Single.	Children.	Dependents.	Time los	t—days.	Percentage of injuries.
Ankle broken. Arm broken! Arm broken! Back injured Back injured Body burned Body burned Body injured. Eye destroyed Eye injured Flinger broken Flinger broken Flinger injured Hand injured. Hand injured. Head injured. Leg broken Leg broken Token Wist broken Token Token Token Wist injured Total	1 3 2 7 2 7 1 1 3 6 2 3 5 7 8 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 2 1	1 1 5 1 4 1 1 1 5 2 2 1 3 4 4 4 1 1 2 1 1 2 1 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1	1 2 1 3 2 1 3 3 2 2 3 3 4 4 2 2 4 2 4	5 3 18 1 11 3 3 3 1 8 6 6 1 6 8 8 16 2 2 8 7 6 6 7 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 4 23 25 15 4 4 2 13 8 2 2 10 8 2 2 2 10 10 8 2 10 10 10 10 10 10 10 10 10 10 10 10 10	123 162 72 72 72 72 72 72 72 72 72 72 72 72 72	123.00 81.00 36.00 45.71 69.00 57.88 30.00 42.00 36.50 60.50 33.53 53.80 74.43 64.63 48.00 35.50 41.00	1, 51 4, 55 3, 03 10, 61 1, 51 1, 51 4, 55 9, 09 3, 03 4, 55 7, 58 10, 61 12, 13 1, 51 1,

<sup>1</sup> One not returned to work.

_								
					Disposi	tion of o	utput.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to railroad companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
-				1	1	1		
	SHIPPING MINES.							
1 2 3 4 5	Prairie Coal Co	E. St. Louis Belleville Collinsville Belleville	842,875 518,496 437,247 307,188	813,129 432,405 393,855 229,902	11,272 545 490	74,550		9,716 43.392
6 7 8	Southern Coal, Coke & Mining Co., No. 17. Kolb Coal Co., No. 2. St. Ellen Coal Co St. Louis & O'Fallon Coal Co.,	do Mascoutah O'Fallon	275,883 259,010 256,544	220,936 255,729 37,420	348	45,450 215,062		3,281
	No. 1 Superior Mining Co., Sup. Eldnar Coal Co., E. Mine. Suburban Coal & Mining Co.	E. St. Louis Bellevilledodo	184,600 183,607 166,123 156,356	175,664 152,948 165,123 151,453	1,000	24,797	2,367	8,936 3,495 2,803
13	Co., Carbon	O'Fallon	127,324 118,109 116,635	121,286 114,169		193	1	4,176 3,240
15 16 17	Columbia Coal Co., Royal., international Coal & Mining Co., Tavlor. Koll Coal Co., No. 1. Star Coal Co., Star. Egyptian C. & M. Co., Meek. Victoria Coal Co., Senior. Southern Coal, Coke & Mining Co., Avery No. 1. Koll Coal Co., Fairbanks. Jones Bros. C. & M. Co., No. 1. Aben Coal Co., Massie. Golden Rule Coal Co., G. R. Fulletton Coal Co., G. R.	O'Fallon Mascoutah Freeburg	115,307 112,972 103,254	119 661		1,867		779 2,776 2,564
18 19 20	Egyptian C. & M. Co., Meek. Victoria Coal Co., Senior Southern Coal, Coke & Mining	Marissa Belleville	100,836 92,811				1,395	6,199
21 22 23	Co., Avery No. 1.  Kolb CoalCo., Fairbanks.  Jones Bros. C. & M. Co., No. 1.  Aben Coal Co., Massie	New Athens Marissa Belleville	91,260 88,245 82,983 65,192 63,982	75,369 57,608 42,841 46,994	27,789	12,800 26,636 3,760	3,091 12,340 13,038 2,759 876	
24 25 26	Golden Rule Coal Co., G. R Fullerton Coal Co Forsythe Coal Co., D. Valley.	Lenzburg Belleville Marissa	63,982 63,150 57,526	00,833			876	1,889 1,441 1,648 1,500
28 29 30	Golden Rule Coal Co., G. R. Fellerton Coal Co., D. Valley. H. E. Miller, Ruby. White Coal Co., Valley. Northern Coal Co. Pittsburg Mining Co. White-Sergent Coal Co. Summit Coal & Mining Co. New National Coal Co.	Belleville Millstadt Belleville	55,456 55,104 54,896 48,061	54,404 51,247 34,664	1,320	10 077	2,079 11,525	700 250 1.872
31 32 33 34	White-Sergent Coal Co. Summit Coal & Mining Co New National Coal Co Guest Coal Co.	Belleville	42,875	45,367 46,426 40,916 40,729			576 91 2,211	579 1,095 2,146
35 36 37 38	Guest Coal Co. Oakdale Coal & Mining Co. Groom Coal Co., Richland. Lenzburg Coal Co., Tierre. Glendele C. & M. Co., Pandle	do Lenzburg	36,762 32,863 32,179 31,405 27,022	28,202 30,459	2,869		8,877 532 820	1,200 1,260
39 40 41	Oakdale Coal & Mining Co. Groom Coal Co., Richland. Lenzburg Coal Co., Tierre. Glendale C. & M. Co., Randle. Highland Coal Co. Kolb Coal Co., V. Hill. Jack Run Coal Co. New Freeburg Coal Co. New Freeburg Coal Co. Radium Coal Co., Wilderman Southern C. C. & M. Co., No. 5 Enterprise Collieries Co., No. 1	Belleville New Athens. Freeburg	27,022 24,262 23,907				12,256	4,175 1,127 1,070
42 43 44 45	New Freeburg Coal Co. Radium Coal Co., Murphy W. L. Scott C. Co., Wilderman	Freeburg Belleville	22,747 12,794 10,000 9,084	1 5,089			8,000 948 505 43	500 452
46 47	Enterprise Collieries Co., No. 1	Rentchler	6,093 930	900		350	5,523	220 30
	Total		5,652,416	4,739,783	98,761	538,895	112,439	162,538
	LOCAL MINES.	D-ll-mill-	00.0=1				00.00	0,40
1 2 3 4	Wm. Lattman. Tower Grove Coal Co. R. Schramm & Son. Brets & Schilling.	dododo	20,871 15,210 13,992 8,751				20,031 14,360 13,692 8,151	300
-			,					

## NINTH DISTRICT, 1917.

-		1		1												
d for	ole ex-	Ins ti b	spec- ons y—	ation.		Tons	mined.	number	Ac	eci- nts.	n use.	nnder-		oal wash other spe reparing	ecial	
Kegs of powder used for blasting.	Pounds of permissible ex- plostves used.	State inspector.	County inspector.	Days of active operation.	Total employees.	By hand.	By machine.	Mining machines—number in use.	Killed.	Injured.	Number of motors in use.	Number of animals under- ground.	Number in use.	Average daily capicity.	Tons prepared dur- ing the year.	Number.
7,249 4,282 3,075 11,515		2		271 236 183 240	580 405 344 289	307,188	842,875 518,496 437,247	25 12 32	3  1 1	20 5 11 4	5 6 2 2	28 17 34 20	1 1	2,000 1,000	54,530 63,884	1 2 3 4
3,054 $11,259$ $9,259$		3 2 2		220 214 181	281 205 266	259,010 256,544	275,883	22	1	1 5	3	19 8 15	1		28,420	5 6 7
8,010 1,667 4,000 5,300		2 2 2 1		189 248 207 267	203 115 149 100	184,600 81,123 156,356	183,607 85,000	10	i	9	3 1 	9				8 9 10 11
1,830 1,800 1,124	1	1 2		172 143 253	95 90 82		127,324 118,109 116,635	5 4 7		····i	<sub>i</sub>	6 9 7				12 13 14
4,448 5,135 800 1,778 1,269			::	129 338 201 157 245	170 103 72 110 74	115,307 112,972 12,670 7,601	103.254 88,166	7	1	  2	2 3  1	9				15 16 17 18 19
3,315 4,198 2,968 2,265 2,554		2		192 188 165 210 151	152 97 96 62 63	91,260 88,245 82 983 65,192 63,982	85,210 85,210		1	 i	2	17 5 7 5 5				20 21 22 23 24
2,422 2,210 2,480 1,830 100		1 1 2		202 148 231 191 165	62 72 48 64 43	63,150 57,526 55,456 55,104 54,896					i	8 5 4 5				200 211 222 233 244 255 266 277 288 299 300 311 322 333 344 355 366 377 388 399
1,703 1,571 2,150 1,562 1,427				253 178 197 249 103	65 61 63 53 75	48,061 47,143 47,096 44,222 42,875					1  i	5 5 10				30 31 32 33 34
1,366 901 1,343 1,047 911 1,215		i		235 202 134 122 258 122	30 39 48 52 31	36,762 32,863 32,179 31,405 27,022				····· 2	1 1 	3 3 4 3				35 36 37 38 39
623 234 493 400	50	2 2 2 1 2		101 201 128 142	53 30 33 21 10	24,262 23,907 12,794 10,000	22,747	5				4 5 3				40 41 42 43 44
398 220 43	::::	1		94 138 25	36 12 23	6,093 930						8 1 2				45 46 47
128,803	50	74		188	5,227	2,647,863	3,004,553	146	10	66	42	370	3	1,500	146,834	
695 50° 600 225		 2		280 262 240 200	21 20 15 8	20,871 15,210 13,992 8,751										1 2 3 4

ST. CLAIR COUNTY,

					Disposi	tion of ou	itput.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
6 7 8 9 10 11 12 13 14 15	John Buxton Fred Quirin & Son A. Bosanko	New Athens Mascoutah Caseyville Marissa Millstadt do Freeburg Millstadt Edgemont Smithton Belleville E, St. Louis	7,600 7,363 5,863 5,000 4,752 2,987 2,864 2,652 2,200 1,781 1,048				7,534 6,816 5,848 4,500 4,071 2,987 2,764 2,460 2,200 1,484 1,048	547 15 500 681 100 192
16	Fred J. Ziska	E. St. Louis	103,234				98,246	
	Total—63 mines		5,755,650	4,739,783	98,761	538,895	210,685	167,526

Mines in 1916, 54. New mines, 10. Abandoned mines, 1 Mines in 1917, 63.

# NINTH DISTRICT, 1917—concluded.

sed for	ible ex-	tic	pec- ons	ration.		Tons	mined.	-number		eci- nts.	in use.	animals under-		oal wash other sp reparing	ecial plant.	
Kegs of powder used blasting.	Pounds of permissible plosives used.	State inspector.	County inspector.	Days of active operation,	Total employees.	By hand.	By machine.	Mining machines- in use.	Killed.	Injured.	Number of motors	Number of animal ground.	Number in use.	Average daily capacity.	Tonsprepared during the year.	Number.
302 332 190 165 136 144 60		1 1 2 1 3 2  2 1 		241 239 192 240 300 210 200 186 200 290 42 150	9 8 11 4 10 9 4 5 2 3 3	7,600 7,363 5,863 5,000 4,752 2,987 2,864 2,652 2,200 1,781 1,048 300										5 6 7 8 9 10 11 12 13 14 15 16
3,365 132,168	50	18 		195	133 5,360	103,234	3,004,553	146	10	66	42	370	3	1,500	146,834	

### SHIPPING MINES, RECAPITULATION BY

					Disposi	tion of or	ıtput.		d for	ple ex-
Number.	Counties.	Number of mines.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to railroad companies and loaded on cars.	Sold to local trade.	Consumed or wasted at the mine.	Kegs of powder used blasting.	Pounds of permissible e
1	St. Clair	47	5,652,416	4,739,783	98,761	538,895	112,439	162,538	128,803	50
	Total	47	5,652,416	4,739,783	98,761	538,895	112,439	162,538	128,803	50

### LOCAL MINES, RECAPITULATION BY

1	St. Clair.	16	103,234				98,246	4,988	3,365	
	Total	16	103,234				98,246	4,988	3,365	
	The district	63	5,755,650	4,739,783	98,761	538,875	210,685	167,526	132,168	50

### ALL MINES, RECAPITULATION BY

1 St. Clair	63	5,755,650	4,739,783	98,761	538,895	210,685	167,526	122,168	50
Total	63	5,755,650	4,739,783	98,761	538,895	210,685	167,526	122,168	50

Whole number of mines reported for 1916, 54. Number of new and re-opened mines during the year, 10. Number of mines abandoned during the year, 1. Whole number of mines reported for 1917, 63.

## COUNTIES, NINTH DISTRICT, 1917.

ation.		Tons r	SS.	Accid	lents.	nd.		Coal w	ashers or ial prepa plant.	other		
Days of active operation	Total employees.	By hand.	By machine.	Number of machines	Killed.	Injured.	Number of motors.	Animals underground	Number in use.	Average daily capacity.	Tons prepared during the year.	Number.
187	5,227	2,647,863	3,004,553	146	10	66	42	370	3	1,500	146,834	1
187	5,227	2,647,863	3,004,553	146	10	66	42	370	3	1,500	146,834	

## COUNTIES, NINTH DISTRICT, 1917.

1	-		1		1		1	1		1 1	
217	133	103,234							 		
217	133	103,234							 		
195	5,360	2,751,097	3,004,553	146	10	66	42		 		

## COUNTIES, NINTH DISTRICT, 1917.

195	5,360	2,751,097	3,004,553	146	10	66	42	370	 	 1
195	5,360	2,751,097	3,004,553	146	10	66	42	370	 	

### TENTH INSPECTION DISTRICT.

Counties—Jackson, Perry, Randolph and Washington.
John McClintock, Inspector.

Hon. Evan D. John, Director, Department of Mines and Minerals, Springfield. Sir: I have the honor to submit to you the annual report of this, the Tenth District, comprising the coal producing counties of Jackson, Perry, Randolph and Washington.

#### SUMMARY OF THE ITEMS IN THE REPORT.

Number of counties producing coal	4
	39
	8
Number of new or reopened mines	5
Number of closed or abandoned mines	8
Number of men underground4,85	1
Number of boys underground	3
Number of men outside the mine	7
Number of boys outside the mine	
Total number of employees	1
Total tons of coal produced	9
Days of active operation, all mines	5
Kegs of powder used for blasting coal 116,64	5
Number of fatal accidents	9
	4
Number of employees to each fatal accident	1
Number of employees to each nonfatal accident	6
Tons of coal produced to each fatal accident	4
Tons of coal produced to each nonfatal accident	
Ratio of fatal accidents per 1,000 employees 1.6	

The following table gives, by counties, the output, the days worked and the number of men employed, 1917 and 1916, with the increase or decrease in each:

		1917 1916					Incr	Decrease.				
County.	Output- tons.	Days worked.	Men em- ployed.	Output- tons.	Days worked.	Men em- ployed.	Tons.	Days.	Men.	Tons.	Days.	Men.
Jackson. Perry Randolph. Washington Total and average Net	818,571 2,477,561 1,162,468 759,999 5,218,599	176 172 206 206 185	1,025 2,551 1,275 650 5,501	2,509,016	149 160 170 179 160	984 2,516 1,271 559 5,330	153,785		91	2,550 31,455  34,005		

NEW AND REOPENED MINES.

J. C. Rich, East Bros., Carbondale; T. J. Howell Coal Co., Harvey & Sons, Norris & Sons, Duquoin.

#### CLOSED AND ABANDONED MINES.

Bowlen Bros., DeSoto; Clark & Shappell, B. F. Dilliner, Frank Mason, Carbondale; W. F. Johnson, Ava; Greenwood & Davis, LeGrand & Son, New Moon Mining Co., Duquoin,

#### CHANGE OF NAME.

J. B. Schimpf, No. 1, to O. R. Moss: J. B. Schimpf, No. 2, to Julius Edwards; Buck York to John Wilson; Boyde Coal Co. to Wilson Coal Co.; Crane Bros. to Crane & Gordon; Kuhn Coal Co. to Colliery Coal Co.; Nicholson Coal Co. to Nashville Mining Co.

#### FATAL ACCIDENTS.

August 15, 1916, Robert Jenkins, driver, age 40 years, married, was killed by falling slate in Paradise Coal Company's mine, Duquoin, Perry County.

December 9, 1916, John G. Dickey, assistant mine manager, age 48 years, single, was killed by falling coal in Moffat Coal Company's mine,

Sparta, Randolph County. He leaves two dependents.

January 22, 1917, Russel Schosler, laborer, age 60 years, killed at the West Side Coal & Mining Company's mine, Coulterville, Randolph County. Deceased was blocking down a coal car when his head was caught between the car and a brace on the shaker. He died six hours later.

February 5, 1917, Reuben Rushing, laborer, age 19 years, married, employed at the Security Coal Mining Company's mine, Duquoin, Perry County, was killed by the explosion of a boiler. He leaves a widow.

February 13, 1917, James H. Connley, miner, age 26 years, single, was killed in Julius Edwards' mine, Ava, Jackson County, by falling clod. He

leaves one dependent.

February 19, 1917, William J. Allen, pumpman, age 47 years, married, was killed by becoming entangled in the machinery of a gasoline engine, in No. 4 mine, Illinois Fuel Company, Sparta, Randolph County. Deceased was found dead, lying alongside of engine, one foot was cut off and several gashes were found on his head. He leaves a widow and five children.

March 31, 1917, Harry Davis, driver, age 23 years, married, was killed by falling roof, in No. 4 mine, Illinois Fuel Company, Sparta, Randolph County. He leaves a widow and two children.

April 17, 1917, All W. Baird, miner, age 35 years, married, was killed by falling slate, in Jackson Coal Company's mine, Hallidayboro, Jackson County. He leaves a widow and two children.

June 12, 1917, Arch York, driver, age 20 years, single, was killed in Jackson Coal Company's mine, Hallidayboro, Jackson County, by pit cars.

Respectfully submitted.

JOHN McCLINTOCK. Inspector, Murphysboro, Illinois.

FATAL CASUALTIES, TENTH DISTRICT, JUNE 30, 1917.

			· · · · · · · · · · · · · · · · · · ·		_					
Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
Jan. 22 Feb. 5	Robert Jenkins. John G. Dickey. Russel Sohosler. Reuben Rushing Jas. H. Connley Wm. J. Alleu Harry Davis. All W. Baird. Arch York. Total.	60 19 26 47 23 35 20	Laborerdo. Miner Laborer Driver Miner Driver	Coulterville Duquoin Ava Sparta do Hallidayboro Elkville	1 1 1 1 1	1 :: :: ::	1 1 1 1 1	5 2 2	1	Railroad cars. Boiler explosion.

### RECAPITULATION OF FATAL ACCIDENTS, TENTH DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Ava Coulterville Duquoin Elkville Hallidayboro Sparta	1 1	Asst. mine manager Drivers Laborers Miners	3	Boiler explosion Engine. Falling coal. Falling roof. Falling slate. Pit cars. Railroad cars	1 1 1 3	Illinois Fuel Co. Jackson Coal Co. Moffat Coal Co. Paradise Coal Co. J. B. Schimpt Security C. & M. Co. West Side C. & M. Co.	2 2 1 1 1 1 1 1 1

# NONFATAL CASUALTIES, TENTH DISTRICT, JUNE 30, 1917.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
10 Aug. 19 Sept. 16 18 30 Oct. 13 14 14 22 23 25 50 Nov. 6 21 24 24 24 24 25 25 25 25 25 25 25 21 21 22 21 22 23 25 25 25 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	Joseph Snowden John Adomites. LO Gritis Andy Robertson Sam Fritz Tony Vento LI Campanella Gus. Brandt William McDonald Chas. Long. Vergel Mage A. Lamonico. Ray Terry Fred Boston Frank Duebalic Luther Allen Albert Alexander Bert Wright M. Siebnig Can Miller Can Mil	44 50 26 18 40 23 25 56 37 49 25 25 24 55 26 30 40 26 19 18 30 42 30 42 30 42 43 40 40 40 40 40 40 40 40 40 40	Tilden Duquoin. Willisville. Duquoindodododo. Duquoindodododododododo	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Leg injured, muled. Leg broken, not stated. Leg broken, not stated. Leg broken, not stated. Leg injured, stating coal. Leg injured, falling coal. Foot injured, falling coal. Foot injured, fell off motor. Body injured, falling rail. Body injured, falling rail. Body injured, sipped off chain. Anike injured, slipped off chain. Anike injured, slipped off chain. Head injured, kicked by mule. Head injured, kicked by mule. Arm broken falling slate. Head injured, proper stated. Arm broken falling slate. Head injured, proper stated. Arm broken falling slate. Arm broken falling slate. Head injured, proper stated. Arm broken falling slate. Head injured, proper stated. Arm broken falling slate. Head injured, proper stated.  Go Body injured, falling clod.	46 120 31 30 31 35 103 30 187 70 57 46 34 33 30 31 37 38 30 31 37 38 30 31 37 38 30 31 30 31 30 31 30 30 31 30 30 30 30 30 30 30 30 30 30 30 30 30
6 6 7 13 13 16 16 16 24 24 24 24 Feb. 5 9 12 16 6 26 Mar. 5 13 17 17 30 30 30 30 30 Apr. 3	Jack Hougland. Scott B. Jones Jesse Midgett. Andrew Laduca. H. Willis. Malcom Starhouse. Wm. Bradly. Wm. Hamilton. Hy. Ward. Millard Lively. Clifton Seiber. Wm. Rodely, J. Jas. Bushong. M. A. Caldwell. Alf. McMillan. William Christie. Garrett Hensley. Leo. Indirante. Jas. Napier. J. W. Coldwell. Ollie Posey. Albert Day.	35 53 44 41 57 19 39 21 34 32 24 18 60 30 22 69 47 50 29 22	Yates Center, Kan. Duquoin, Willisvilledo. Percy Duquoin, Willisville. Sparta Marissa Duquoin .do. Craig Nashville Murphysboro Duquoin .craig Ouch	111111111111111111111111111111111111111	1 1 1 1 1 1 1 1 1	6  1  5 1	5 1 7 1 2 3 2 6 2 1 1	Body injured, falling slate.  Arm broken, pit car Leg broken, pit car Leg broken, pit car Foot injured, falling clod. Body injured, falling clod. Body injured, falling clod. Collar bone broken, pit car Leg broken, pit car Leg broken, pit car Leg broken, falling rock. Hand injured, sprag. Ankle injured, falling coal. Body njured, falling coal. Body njured, falling clod. Finger injured, motor Back injured, motor Back injured, falling clod Foot broken, pit car Leg burned, hot ashes. Body injured, flof from car Ankle injured, not stated. Arm broken, not stated. Hand broken, pit car Leg hurned, falling from car Arm broken, not stated. Hand broken, pit car Leg hurned, falling from car Arm broken, not stated.	70 80 90 30 30 31 120 150 85 42 42 42 42 30 38 34 75 55 38 * 73 90 83 45

# NONFATAL CASUALTIES, TENTII DISTRICT, JUNE 30, 1917—concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—
25 28 30 May 7 7 16 21 22 28 June 1 6	Wm. Henderson. Harmon Presswood James Miller. George Broha. James Carter. Wild Repke. Wm. Hobey Philip Hacher. Louis Shibrack. Robt. Beisner. John Bunton. M. Sharp. Pete Spoto. R. Weiden. Robert Presswood	22 24 35 29 34 21 24 33 26 25 29 52	Duquoin Pinekneyville do do Willisville Duquoin Marissa Duquoin Willisville Duquoin Willisville Duquoin do Willisville Percy Pinckneyville			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 1 3 1 3 1 1 3 2 6	Body burned, not stated. Ribs broken, pit car. Ankle broken, pit car. Foot broken, falling clod. Finger injured, pit cars. Leg injured, struck by gas pipe. Body injured, jumped off car. Body injured, not stated. Leg burned, hot water. Foot injured, falling machine guide. Leg injured, fell. Ankle injured, machine. Back injured, pit car. Head injured, kieked by mule. Arm broken, falling slate.	42 30 60 36 37 30 30 39 30 30
Numbe Numbe	ot returned to work Ju r injured. r not returned nber returned		64		7	in	ne los erage	st by men returned, days	3,268 5 <b>1.</b> 87

# RECAPITULATION OF NONFATAL ACCIDENTS, TENTH DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
llinch raig Draig Duquoin darissa durphyshoro Vashville ercy rinckneyville parta unfield liiden Villisville Yates Center, Kan.	3 27 2 5 1 5 6 1 1 2 9	Cager Drivers Electrician Engineer Fireman Laborers Loaders Machine helper, Machine runners Machine funners Miners Miners Motorman Shot firers Trip rider	16 1 1 10 11 1 3 1 12 1 4	Falling clod Falling coal Falling rock Falling rock Falling slate Fell Lifting objects Machine Motor Mule Pit cars Shot explosion Struck by objects Not stated	5 8 1 2 1 3 18 1	Bailey Bros. Coal Co Big Minddy C. & I. Co Crown Coal Mining Co Jones Bros. C. & M. Co Majestic Coal Co Nashville Mining Co Paradise Coal Co Ritchey Coal Co Security C. & M. Co Willis Coal & M. Co Willis Coal & M. Co	1 1 1
Total	64		64		64	1	- 6

RECAPITULATION OF NONFATAL ACCIDENTS, NATURE OF INJURIES, CONJUGAL RELATIONS, AND TIME LOST, TENTH DISTRICT, 1917.

	Jr.	-		n.	lents.	Time los	t—days.	tage urics.
Nature of injuries.	Number.	Married	Single.	Children	Dependents.	Total.	Aver- age.	Percentage of injuries.
Ankle broken. Ankle injured! Arm broken. Back injured Body bruned Body injured Body injured Collar bone broken Finger broken Finger tu off Finger injured Foot broken Foot injured Hand broken Hand injured Head injured Leg broken Leg injured Leg broken Rot broken Rot injured Rot Broken Rot injured Rot Broken Rot Injured Rot Broken Rot Injured Rot Broken Rot Injured Rot Broken Rot Injured Rot Broken Rot Broken Rot Broken Rot Broken Rot Broken	1 2 6 3 2 2 4 12 1	1 4 3 1 2 7 7 1 2 1 1 1 2 3 1 1 2 3 1 1 2 3 1 1 1 2 3 1 1 1 1	2 2 1 3 3 1 1 1 3 2 1 1	1 8 5 2 2 2 2 3 5 6 6 4 2 3 3 3 15 3 6 9	2 11 8 3 2 12 12 1 4 4 6 9 5 5 6 6 24 4	65 212 288 64 68 408 120 127 187 80 165 284 155 72 60 445 424 44	65. 00 42. 40 57. 40 32. 00 34. 00 40. 80 120. 00 63. 50 40. 00 82. 50 47. 33 51. 67 36. 00 31. 25 35. 33 44. 00	1. 56 9. 38 7. 81 3. 13 15. 62 1. 56 3. 13 3. 13 3. 13 9. 38 4. 68 3. 13 3. 13 1. 56 2. 10 1. 56 3. 13 3. 13 3. 13 3. 13 3. 13 3. 13 3. 13 3. 13 5. 13
Total	64	44	20	69	112	3,268	51.87	100.00

<sup>1</sup> One not returned to work.

### JACKSON COUNTY,

					Disposi	tion of o	itput.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on ears.	Tons sold to local trade.	Tons consumed or wasted at the mine.
	SHIPPING MINES.							
3	Jackson Coal Co., M. Valley Big Muddy C. & I. Co., No. 9. Gartside Coal Co., No. 4 Big Muddy C. & I. Co., No. 10 Gus Blair, Big. M. C. Co., No. 2 De Soto Peacock C. Co., No. 1	Murphsyboro	287,228 246,465 99,687 87,745 65,423 11,532	236,084 62,951		18,513	30,136	
	Total		798,080	628,492	44,584	18,513	55,363	51,128
2 3 4 5 6 7 8 9	LOCAL MINES.  J. C. Rich. Geo. W. Patrick H. S. Phillips E. H. Birkner Geo. Wahlman East Bros. John Wilson. O. R. Moss. B. A. Schimpf W. R. Campbell T. A. Nesbit. Julius Edwards.  Total	.do .do Oraville Campbell Hill Carbondaledo Ava Vergennes. Mathews. Ava .do	3,000 3,000 2,355 1,350 1,000 650 600 560 360 350 266				7,000 2,500 3,000 2,355 1,325 1,000 400 560 356 356 350 266	500 25 250 4
	Total—18 mines					18,513	19,712 75,075	
	Total—18 mines		818,571	628,492	44,584	18,513	75,075	51,907

Mines in 1916, 21. New mines, 2. Abandoned mines, 5. Mines in 1917, 18.

### PERRY COUNTY,

SHIPPI	ING MINES.							
1 Majestic Coa	l & Coke Co	Duquoin	599,540	369,065		208,975	8,500	13,000
2 Security Coa	l & M. Co., No. 1.	dó	550,261	528.545			784	
3 Paradise Coa	l Co	do	483,483	391,891	41,302	32,591	5,698	12,001
4 Willis C. & N	1. Co., No. 1	Willisville	339,265			324,659		13,249
	Co., No. 1	Pinckneyville			23,306			1,239
	Coulterville Coal		i		,	1117112	-,	-,
Co., Vulcu	m	Coulterville	98,359	94,359			2,500	1,500
7 Crown C. M.	Co., B. E	Craig	80,496			12,703	608	4,454
8 Wilson Coal	Co., G. Mine	Cutler	47,453		5.355		1,387	1,840
9 Collier Coal C	Co., G. Mine Co., Little M	Tamaroa	37,332	33,982			2,150	1,200
10 Bailey Bros.	C. Co., Diamond.	Sunfield	32,238				988	750
11 Soper Coal C	0	Cutler	25,405	23 513	542		250	1,100
II boper cour co	o	Cauci	20,100	20,010				1,100
Total			2,450,336	1,585,612	70,505	695,842	27,112	71,265
LOCA	L MINES.							
								0.10
1 Montgomery	Coal Co	Pinckneyville	10,464				10,124	340
	al Co						6,499	614
3 Hale Coal Co		do	6,418				6,318	100
4 F. J. Howell	Coal Co	Duquoin	1,841				1,691	150
5 Harvey & Sc	ns	do	959				859	100
6 House Bros.	Coal Co	St. John	200				200	

# TENTH DISTRICT, 1917.

d for ole ex-	Ins:	ns	tion.		Tons	nined.	number	Acder	eci- nts.	n use.	under-		oal wash other spe reparing	ecial	
Kegs of powder used for blasting.  Pounds of permissible explosives used.	State inspector.	County inspector.	Days of active operation.	Total employees.	By hand.	By machine.	Mining machines—1 in use.	Killed.	Injured.	Number of motors in use.	Number of animals under- ground.	Number in use.	Average daily capacity.	Tons prepared during the year.	Numbor
11,489 2,421 955 527 548 361	2 3 2 2 3 3 3	1 2 2 1 1 	217 157 256 184 201 205	340 284 114 130 84 25	287,228 8,655 2,426 11,532 309,841	246,465 91,032 87,745 62,997	10 7 6 8 	2	3	3 1 1 5	27 26 16 4 4 2	1	500	78,694	
200 200 200 200 200 200 200 20 20 20 20 21	1 2 2 1 1 1 1 1	2	250 200 200 270 227 130 73 116 208 150 95 30	66 44 10 55 53 22 23 33 1	7,000 3,000 3,000 2,355 1,350 1,000 650 660 360 360 350 266										1 1 1 1
10					20,491						_				

# TENTH DISTRICT, 1917.

		1		1								9	1
,422	3	 i	219 179	549 570	89,963	509,577 550,261	18	 1 1	10 8 10 9	7	22	 	
,358		1	210	496	178,727	304,756	14	1	10	17 5 4	23		
,938	8		278	272		339,265	8		9	4		 	
,920	8	1	239	181	156,504				5		9	 	
,760	8		162	134	98,359					1	7	 	
,232	]		194	88	80,496				4		10	 	
,488	6		221 142	48 78	37 339						4 5	 	
,650	3		163	45	32,238				1		5	 	
,016	3		204	41	25,405						6	 	
.564	31	2	201	2,502	746,477	1,703,859	52	2	47	34	143	 	
		-		<u>-</u>			-	-	-	==	-	 	
450		1	175	12	10.464								
255	3		200	12 8	7,113				1			 	
100				12 5 4 3	6,418							 	 -
40			228	4	959								
			50	3	200								

					Disposi	tion of o	ıtput.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to railroad companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
7 8	Dry & Revelle	Duquoin	175 55 27,225				172 55 25,918	1,307
	Total—19 mines		2,477,561	1,585,612	70,505	695,842	53,030	72,572

Mines in 1916, 19. New mines, 3. Abandoned mines, 3. Mines in 1917, 19.

#### RANDOLPH COUNTY,

SHIPPING MINES.						
Willis C. & M. Co., No. 6	Percy	261,444	70,679	 184,913	723	5,12
Illinois Fuel Co., No. 4	Sparta	240,460	233,478	 		6,98
Moffat Coal Co., No. 1	do	189,282	93,313	 92,909		3,06
Jones Bros. C. & M. Co., No. 2	Tilden	110,806	109,324	 		1,48
Jones Bros. C. & M. Co., No. 2 Wilson Bros. Coal Co., Eden, No. 7	C	04.040	== 000	00.000	1 105	0.10
Tilden Coal Co., Crystal	Sparta	84,946 73,708		 26,628 20,175		2,19
Randolph County Coal Co	Coultorville	73,196	35,400	 34,869	1,348	1,82
West Side C. & M. Co	do	50,280	42 975	 4,000		2,55
Tilden Coal Co., Tilden	Tilden	49,012	28, 220	 19,332		1,46
ziiden coai co., ziiden	1114011111111		20,220	 10,002		1,1
Total		1,133,134	718,870	 382,826	5,176	26,26
LOCAL MINES.						
with a grand	Z				F 100	
Wilson Coal Co	Sparta	5,760		 	5,160	6
Boyle Coal Co	Porev	3,000		 	5,600 3,821	
Rury & Co		4,409		 	4 000	
John Adams Coal Co	Willisville	3,400		 	3,380	
J. W. Bixby	Sparta	3,085		 	2,960	
Edward Jones & Son	do	3,020		 	2,800	
				 		-
Total		29,334		 	27,721	1,6
Total—16 mines		1,162,468	718,870	 382,826	32,897	27,8

Mines in 1916, 16. Mines in 1917, 16.

### WASHINGTON COUNTY,

SHIPPING MINES.						
1 Centralia Coal Co., No. 5 2 Nashville Mining Co	Centralia	705,514 36,900	688,098 16,100	10.500	 9,850	17,416 450 353
3 Kuhn Colliery Co	Dubois	14,536	13,653	10,000	 530	353
Total		756,950	717,851	10,500	 10,380	18,219
LOCAL MINES.					 	
1 Martin Bros	Lenzburg	3,049			 3,049	
Total—4 mines		759,999	717,851	10,500	 13,429	18,219

Mines in 1916, 4. Mines in 1917, 4.

# TENTH DISTRICT, 1917—concluded.

ed for	ble ex-	Ins tic by	ns	operation.		Tons	mined.	number	Acder	eci-	in use.	under-		oal wash other sp reparing	ecial	
Kegs of powder used blasting.	Pounds of permissible plosives used.	State inspector.	County inspector.	Days of active oper	Total employees.	By haud.	By machine.	Mining machines— in use.	Killed.	Injured.	Number of motors	Number of animals ground.	Number in use.	Average daily capacity.	Tons prepared dur- ing the year.	Number.
3 1				37 7	2 3	175 55										7 8
899 44,463		10	3	131	2,551	27,225 773,712	1,703,859	52	2	48	34	143				

# TENTH DISTRICT, 1917.

3,058 2,938 2,552 4,275	4		212 271 243 147	262 198 186 157	110,806	240,460 189,282	7	2 1	5 4	4 1 i	15 21 20 9	 	
1,761 26 75 2,791 2,511 2,335	4 5 4		136 169 233 192 147	123 99 65 62 75	18,462 73,708 73,196 50,280 49,012						10 8 4	 	
2,247 75	33	==	194	1,227	375,464	757,670	36	4	10	7	95	 	
290 400 150 133 150 115	2 3 3	1	200 200 313 260 172 156 250	10 7 8 4 8 8 8			i						
,348 3,595 75	17 50	1 1	222	1,275	27,740		37	4	10	7	95	 	

# TENTH DISTRICT, 1917.

28,641 1,984 485 31,110	3	1 276 1 225 1 121 2 207	59 21	14,536	 	 1	15  15	6 3		1 2 3
	3	203		3,049 714,558	 6	 1	15	9	 	 1

#### SHIPPING MINES, RECAPITULATION BY

					Dispos	ition of ou	tput.		d for	ble ex-
Number.	Counties.	Number of mines.	Total output.	Tons loaded on cars for ship-ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Sold to local trade.	Consumed or wasted at the mine.	Kegs of powder used blasting.	Pounds of permissible ex- plosives used.
2	Jackson Perry Randolph Washington Total	6 11 9 3 - 29	798,080 2,450,336 1,133,134 756,950 5,138,500	628,492 1,585,612 718,870 717,851 3,650,825	10,500	18,513 695,842 382,826 1,097,181	55,363 27,112 5,176 10,380 98,031	18,219	16,301 43,564 22,247 31,110 113,222	75

#### LOCAL MINES, RECAPITULATION BY

	-		,						
1 Jackson	12	20 491				19 712	779	1 045	
2 Perry	8	27 225		í		25 918	779 1,307	899	
3 Randolph	7	29,334				27,721	1,613	1,348	
4 Washington	. 1	3,049				3,049		131	
Total	28	80,099			•••••	76,400	3,699	3,423	
The district.	57	5,218,599	3,650,825	125,589	1,097,181	174,431	170,573	116,645	75

### ALL MINES, RECAPITULATION BY

3	Jackson Perry Randolph Washington	19 16 4	2,477,561 1,162,468 759,999	1,585,612 718,870 717,851	70,505	695,842 382,826	53,030 32,897 13,429	27,875 18,219	44,463 23,595 31,241	75
	Total	57	5,218,599	3,650,825	125,589	1,097,181	174,431	170,573	116,645	75

Whole number of mines reported for 1916, 60. Number of new and reopened mines during the year, 5. Number of mines abandoned during the year, 8. Whole number of mines reported for 1917, 57.

### COUNTIES, TENTH DISTRICT, 1917.

ation.		Tons :	nined.	SS.	Aecio	lents.		nd.	Coal v	vashers o dal prepa plant.	or other aring	
Days of active operation.	Total employees.	By hand.	By machine.	Number of machines	Killed.	Injured.	Number of motors.	Animals underground	Number in use.	Average daily capacity.	Tons prepared during the year.	Number.
203 201 194 207 200	977 2,502 1,227 645 5,351	309,841 746,477 375,464 711,509 2,143,291	488,239 1,703,859 757,670 45,441 2,995,209	31 52 36 6	2 2 4 8	5 47 10 1	5 34 7 15	79 143 95 9 326	1	500	78,694 78,694	

### COUNTIES, TENTH DISTRICT, 1917.

***		00 101								
162	48	20,491 27,225			1	;		 		
130 222	49	27,740				1		 		 - 2
203	5	3,049								4
200		0,013						 		
170	150	78,505	1,594	1	1	1		 	<i></i>	
===								 		
185	5,501	2,221,796	2,996,803	126	9	64	61	 		

### COUNTIES, TENTH DISTRICT, 1917.

176 172 206 206	1,025 2,551 1,275 .650	330,332 773,702 403,204 714,558	488,239 1,703,859 759,264 45,441		3 2 4	5 48 10 1	5 34 7 15	79 143 95 9	 	 1 2 3 4
185	5,501	2,221,796	2,996,803	126	. 9	64	61	326	 	

#### ELEVENTH INSPECTION DISTRICT.

Counties—Franklin, Gallatin, Saline and White.
John E. Jones, Inspector.

Hon. Evan D. John, Director, Department of Mines and Minerals, Springfield.

Sir: I have the honor to submit to you the annual report of this, the Eleventh District, comprising the coal producing counties of Franklin, Gallatin, Saline and White.

#### SUMMARY OF THE ITEMS IN THE REPORT.

Number of counties producing coal	4
Number of shipping mines	2
Number of local mines	0
	8
Number of closed or abandoned mines	6
Number of men underground	5
Number of boys underground	7
Number of men outside the mine	1
Number of boys outside the mine	5
Total number of employees	8
Total tons of coal produced	
Days of active operation, all mines	
Kegs of powder used for blasting coal	
Pounds permissible explosives used	
Number of fatal accidents	
Number of nonfatal accidents	
Number of employees to each fatal accident	-
Number of employees to each nonfatal accident	
Tons of coal produced to each fatal accident	
Tons of coal produced to each nonfatal accident	
Ratio of fatal accidents per 1,000 employees	
The following the size of the contribution of	

The following table gives, by counties, the output, the days worked and the number of men employed, 1917 and 1916, with the increase or decrease in each:

	1	917		1	916		Incr	ease.		Decrease.		
County.	Output- tons.	Days worked.	Men em- ployed.	Output- tons.	Days worked.	Men em- ployed.	Tons.	Days.	Men.	Tons.	Days.	Men.
Franklin Gallatin Salinc White	11,317,657 125,366 4,530,903 105,645	227 116 136 211	195 4,817	9,070,811 68,094 4,502,801 27,151	145 130	4,833	57,272 28,102	6	26		29	16
Total and average	16,079,571	161	15,618	13,668,857	149	13,668	2,410,714	<sub>12</sub>	1,966 1,950			16

#### NEW AND REOPENED MINES.

Franklin County.-The Hart-Williams Coal Company's mine at Benton was closed in February, 1915, and reopened in August, 1916, by the Taylor Collieries Company and known as No. 6. The Western Coal and Mining Company has put in operation No. 2 mine at Royalton.

Gallatin County .- Wm. M. Strong, Shawneetown; Jones and Martin,

Junction; James T. Colbert, Spizner and James, Equality.

Saline County.—Harrisburg Colliery Company, Harco; Jess Allen, Equality.

#### CLOSED AND ABANDONED MINES.

Gallatin County.—George Brinkley, Crescent Coal Co., Equality: T. H. Clark, E. P. McCabe, Shawneetown.

### CHANGE OF NAME.

Christopher Coal Mining Co., No. 1, to Old Ben Coal Corporation, No. 10; Christopher Coal Mining Co., No. 2, to Old Ben Coal Corporation, No. 11; United Coal Corporation, No. 1, to Old Ben Coal Corporation, No. 12; United Coal Corporation No. 2, to Old Ben Coal Corporation, No. 14; Middle Fork Mining Company to United States Fuel Co., No. 1; Producers Coal Company No. 18, to By-Products Coke Corporation, No. 18; Producers Coal Company, No. 19, to By-Products Coke Corporation, No. 19; Eldorado Coal & Mining Co., to Dering Mines Company No. 3; Gallatin Coal & Coke Company to Northern Coal Co., No. 4; Harrison Bros. to Sisk, Flanders and White; Wm. H. McLean to Frank Genor & Son; W. R. Henshaw to W. J. Fife; Almon Russell to Davis & Hanald; Mag Sisk to John Revnolds.

#### PROSPECTIVE MINES.

The Franklin Coal Mining Company, a new company of Franklin County, is sinking a mine about one mile northeast of the center of Benton. Ground was broken on July 1, 1917. The hoist shaft is 11 feet 4 inches by 17 feet 2 inches, to be equipped with self-dump cages. The air shaft is 11 feet 4 inches by 15 feet 2 inches. The shafts will be 600 feet deep to No. 6 coal. The mine is to be modern and is designed for an output of 4,000 tons daily. The immediate railroad connections to this mine will be the C. & E. I. and I. C.; later, connections will be made with the C., B. & Q. and St. L., I. M. & S.

The Modern Coal Company, a new company of Franklin County, is sinking a mine one-half mile north of Sesser on the C., B. & Q. R. R. The hoist shaft is 11 feet 4 inches by 17 feet 3 inches, to be equipped with selfdump cages. The air shaft is 11 feet by 15 feet. The shafts will be 660 feet to No. 6 coal. The coal at this location is 9 feet thick. The mine is to be

modern and will be equipped for a daily production of 4,000 tons.

The Bell & Zoller Mining Company is sinking a new mine in Franklin County, located 2 miles south of mine No. 1; the new mine will be known as No. 2. The hoist shaft will be 21 feet 8 inches by 12 feet with concrete lining and steel "I" beam buntins, equipped to accommodate a 51/4-ton car. The air shaft will have three compartments: airway, stairway and cageway. It will be 22 feet 8 inches by 12 feet with concrete lining and steel "I" beam buntins. Material will be handled through the cageway of the air shaft. The tipple will be a 3-track steel structure, equipped with shaker screens. Coal under two inches will be resized in a rescreener. Mine and equipment are planned for a capacity of 5,000 tons per day. Railroad connections are C., B. & O., St. L., I. M. & S. and I. C.

The Valier Coal Company, a new company of Franklin County, is sinking a mine one mile north of Valier on the C., B. & Q. R. R. The hoist shaft is 15 feet by 22 feet 6 inches over all, and will be equipped with self-dumping skips, the coal to be dumped into the skips on the shaft bottom by means of a rotary dump. The air shaft is 17 feet by 33 feet 2 inches over all. It will be divided into three compartments, airway, stairway and cageway,

Both shafts will be lined with concrete walls. They will be 586 feet deep. Coal at this location is 10 feet 8 inches thick. The mine is designed for 5,000 tons daily capacity.

The Saline County Coal Company, mine No. 4, now being sunk in Saline County, is located in Brushy Township, approximately 5 miles west of Harrisburg and will be one of the modern mines of Southern Illinois. It is designed for a daily production of 4,000 tons. The shafts will be 300 feet deep and seam No. 5 will be mined. The hoist shaft will be 12 feet 6 inches by 21 feet. The air shaft will have three compartments, airway, stairway and cageway. It will be 12 feet 6 inches by 26 feet 4 inches. These shafts will be of steel and concrete construction throughout.

The Dering Coal Company is sinking mine No. 2 in Saline County, 21/2 miles northwest of Eldorado on the Illinois Central Railroad. Later connections will be made to the Big Four and the L. & N. Railroads. The mine is to be modern throughout and equipped to handle 4,000 tons daily. The hoist shaft is 11 feet 4 inches by 17 feet. The air shaft is 11 feet 4 inches by 18 feet. The coal seam is No. 5, 460 feet from the surface and is 5 feet 6 inches thick. The development is upon a permanent plan. Power and machinery installed for sinking are those to be used permanently.

The proposed Wasson Coal Company, No. 3, mine, will be located in Saline County, 11/4 miles west of Eldorado on the Illinois Central Railroad. Later connections will be made to the Big Four and L. & N. Railroads. The mine is to be equipped for 2,000 tons daily output. Both shafts will be 8 feet by 16 feet, 410 feet to the coal. The coal mined will be seam No. 5,

which is 5 feet 6 inches thick at this locality.

The Heato Coal Company of Carriers Mills, Saline County, has completed the driving of a new slope. This is 135 feet long upon a 30 per cent incline. The tipple is 15 feet by 45 feet by 26 feet high with a dumping capacity of 500 tons. It is equipped with two railroad tracks. The incline is equipped with a double track and hoisting will be done by an electric motor. A concrete man-way will be added in the near future. Other installations are a 15 feet by 30 feet office and shop building, 20 mine cars, electric pump and fan to be operated by an electric motor. The railroad connection is the S. I. R. & P. Co. (Electric.)

#### IMPROVEMENTS.

The Benton Coal Company is sinking a new air shaft 3,500 feet west of their hoisting shaft. A home trade chute and screening elevator in the main shaft tipple has been installed. Other improvements are as follows: Ten chain breast mining machines with 7-foot cutter bars, two 10-ton locomotives, 150 3-ton mine cars, 800 feet 1,600,000 lead covered cable and 5,000 feet 800,000 lead covered cable.

The Sesser Coal Company has retimbered the air shaft, added three long-wall mining machines with 6-foot cutter bars to the underground equipment and built concrete blacksmith shop 30 feet by 40 feet, concrete machine

shop 40 feet by 40 feet, and concrete repair shop, 30 feet by 40 feet.

The Chicago, Wilmington and Franklin Coal Co. has added a 400 horsepower water tubular boiler to the power plant; installed the material and man cage in the cage compartment of the air shaft and added a water softener for boiler feed; two storage tracks and a trestle 500 feet long and 7 feet high have been built near the mine and 15 25-ton air dump railroad cars and two clam shell cranes have been added for the storage of coal. The original 40-ton drum has been exchanged for a 20-ton drum in the engine room. A 16 feet by 32 feet brick powder house, 74 4- and 5-room miners' houses, 2 6-room officials' houses and an additional 24 feet by 36 feet extension to the wash house have been built. A second story containing five rooms has been built on to the mine office. The following additions have been made in the mine: Two 15-ton locomotives, 2 8-ton locomotives, 2 61/2-foot cutter bar short-wall mining machines, 3 71/2-foot cutter bar shortwall mining machines and 120 4-ton mine cars.

The West Frankfort Coal Company has added a new 200 horsepower boiler and stack, together with the necessary extension in the boiler room, three chain breast mining machines, with 6½-foot cutter bars, 40 3½-ton mine cars, and an electric mine pump, 3-inch discharge and 4-inch suction. The main haulage roads have been changed to 40-pound rails. A frame stable has been erected 40 feet by 80 feet. Storage track for railroad cars has been increased. A 15-ton electric locomotive is now being installed. A steel tower has been ordered to replace the wood tower now in use.

The Western Coal and Mining Company broke ground for their mine No. 2, in the extreme southwest corner of Franklin County, on July 1, 1916. Both shafts are 10 feet by 15 feet. The coal is 152 feet below the surface and 91/2 feet thick. The hoist is equipped with self-dump cages, steel guides. buntins and wall plates. The plant is designed for a daily capacity of 3,500 tons. The engine room is 48 feet by 62 feet, steel frame and stucco. The boiler room is 48 feet by 72 feet, steel frame and stucco. The hoist engine is 24 inches by 36 inches with 6½-foot drum, steam brake, steam reverse and emergency valve. There are four 250 horsepower 4-inch return tubular boilers equipped with water level regulators, automatic stops and checks and a steam jet ash conveyor. The stack is of concrete, 105 feet high. A water softening system for the use of mine water is now being installed. A 200 kilowatt generator is direct connected to a 22-inch by 22-inch engine. Other buildings are the office and shop building 25 feet by 140 feet, steel frame and stucco, wash house, 30 feet by 70 feet, to be equipped with hangers. A temporary 8-foot high speed fan is now in use, and a 25-acre reservoir has recently been completed. The most important underground installations are 6 short-wall mining machines, 1 10-ton locomotive, 150 3½-ton mine cars with roller bearing wheels and 42-inch track guage. The shaft bottom is 380 feet long and designed to handle cars by gravity.

The W. P. Rend Collieries Company has put in 75 3 ton mine cars and one electric pump. New air courses are being driven to connect both sides

of the shaft in the interior of the mine.

The improvements made by the Old Ben Coal Corporation for the year are shown for each mine as follows:

Mine No. 8.—One brick stack 125 feet high, 11 feet by 11½ inches wide at bottom by 8 feet 2½ inches at top; three John O'Brien boilers, 72 inches by 18 feet, 125-pound pressure; brick addition to boiler room, 20 feet by 40 feet; brick addition to power house, 20 feet by 50 feet; one Allis Chalmers generator, 300 kilowatts, 275 volts, full load, 1,090 amperes, 490 r. p. m.; eight mine telephones underground; one 75 horsepower Western Electric motor, 4 pole, 230 volts d. c., 775 r. p. m.; one 250 horsepower internally fired Freeman boiler; three 48-inch by 72-inch shaker screens; two link-belt locomotive cranes, 135 pounds steam pressure, 2-inch flues; one 16 by 24 four-wheel saddle tank locomotive, type 0-40; 125 mine car bodies complete with Sanford-Day mine car trucks; 128 self-closing patent door lockers; one 16-inch by 7-foot screw body cutting engine-lathe; one Western Electric motor, 220 volts, 1,000 r. p. m. for above lathe; four mining machines; four 8-inch suction, 5-inch discharge; one Cochrane heater, 500 gallons capacity; 5,080 feet wire fence; one brick heater house, 10 feet by 12 feet.

Mine No. 9.—One 7-inch by 4½-inch by 10-inch duplex turret pump; eight mine telephones below; one supply house on top, wooden structure, stucco finish, 40 feet by 70 feet; one black oil tank, capacity 3,000 gallons; one storage plant and equipment; one check house on top, wooden structure, stucco finish; one generator, 500 kilowatts; one Corliss engine, 275 volts full load, d. c.; 250 mine cars with Sanford-Day trucks complete; 128 wash house lockers; four mining machines; three 8-ton gathering motors; two 400 horsepower vertical boilers; one new scale house, stucco finish, 18 feet by 20 feet. A large clam-shell steam shovel has been installed for the storage of coal adjacent to the mine. The coal is dumped from the rescreener into an excavation then is picked up by the clam-shell and is transported by the boom and railroad spur, upon which the shovel car travels.

and dumped into large circular piles.

Mine No. 10, Christopher.—One new hoisting engine; a 20-foot by 20-foot addition to the boiler room; one 150 horsepower return tubular boiler. The machine shop and wash house have been doubled in size.

Mine No. 11, Christopher.—A 30-foot by 30-foot extension to the wash house; a 30-foot by 75-foot extension to the machine shop and a brick warehouse 45 feet by 90 feet have been built; a 2,500 kilowatt generator set has been added to the power plant.

Mine No. 12, Christopher.—Two 6-ton gathering locomotives; two chain breast machines; 32 3-ton mine cars; three 150 horsepower return tubular ballars

Mine No. 14, Buckner.—One 6-ton gathering locomotive; four chain breast machines; one 200 kilowatt d. c. generator ventilating fan; one 550 horsepower boiler; three loading booms and picking tables; 25-foot by 35-foot addition to machine shop.

The Taylor Collieries Company's mine, No. 6, formerly operated by the Hart-Williams Coal Company, was reopened during August, 1916, after being closed down for 18 months. The entire equipment on top and in the interior of the mine has been overhauled. A new galvanized iron boiler house has been built and the office building enlarged. The tipple is now being recovered. In the mine all air courses have been reopened, tracks relaid and partings extended. Main air courses and haulage roads have been retimbered. Twelve mining machines have been rebuilt and two mining machines added.

The Franklin Coal & Coke Company, mine No. 1, has replaced its tipple, which was partially consumed by fire in September, 1916, and equipped it with new shaker screens and scales. Other new installments are a fan engine, 25 houses, two 5-ton gathering locomotives, two 6-ton storage battery gathering locomotives, one short-wall mining machine, 50 3-ton roller bearing mine cars. The shaft bottom at mine No. 2 has been retimbered and motor haulage is being installed.

At the Bell & Zoller Mining Company's mine No. 1, Zeigler, the coal is hoisted in skips which have a capacity of 8 tons each. The skips are loaded from a hopper which has a capacity of 60 tons, and the hopper is built below the level of the coal adjacent to the hoisting shaft. Originally the car bottoms were hinged and held by dogs; these were loosened by hand as the loaded cars passed over the hopper, the coal falling through the bottom of the car into the hopper. Much trouble was experienced because frequently the coal would arch in the cars. The doors often would drop while enroute to the bottom keeping the haulage roads covered with coal and coal dust. To overcome this trouble a rotary dump has been installed and all of the mine cars equipped with solid bottoms. The dump dumps two cars at a time and has a capacity of 16,000 tons per day of 8 hours. The dump is operated by compressed air. The cars enter one end, stop automatically, then depart out of the other end. Additional installations are 200 4½-ton mine cars, two breast mining machines, one 100 kilowatt generator, one storage bin, 900 tons capacity.

The By-Products Coke Corporation, at mine No. 18, has laid out a town site and 60 miners' houses and five officials' houses are being built. These are all to be equipped with running water, sewerage and electric lights. The name of the new town is Caldwell and is 2½ miles northeast of West Frankfort. A new air course is being driven around the old air course, which was partly destroyed at the time of the fire and explosion eight years ago. At mine No. 19 the steel tipple has been completed. All of the mechanism in the tipple is operated by individual motors. A water heating system has been installed and 50 2½-ton mine cars added.

The Taylor Mining Company, mine No. 5, (Possum Ridge), has recently installed two new self-dump cages and a new hopper. Forty 3-ton mine care have been added. The bottom run-a-round has been completed through a fault of 200 feet of rock. The 3 and 4 southwest entries have been driven through a fault 258 feet long. The main entry is timbered with "I" beams and steel less set on low concrete walls throughout the length of the fault.

The Saline County Coal Company of Harrisburg has built a 25-foot by 33-foot brick wash house at their mine No. 2. A combination loading boom and picking table equipped with an operating motor, 50 21/2-ton mine cars and one 10-ton locomotive have been installed. At mine No. 3 the following additions have been made: A combination loading boom and picking table; gravity railroad car retarders; wash house of brick increased to 25 feet by 66 feet, equipped with two boilers 72 inches by 18 feet, with water softening system; steam separators on all steam engines; one 300 kilowatt motor generator set and transformer station for stepping 13,200 volts to 2,200 volts; electric shop transferred to the shaft bottom; one 10-ton locomotive; three 6-ton gathering locomotives; three chain breast machines, with 7-foot cutter bars; one short-wall machine; 400 41/2-ton mine cars, and one tandem control 12-ton locomotive. Acid water from old workings has been very troublesome in this mine. The system proving effective has been the installation of 2,500 feet of wood pipe. At mine No. 6, known as the Grayson mine, a new galvanized iron machine shop, 48 feet by 84 feet; a brick boiler house, 54 feet by 90 feet, and an engine house 50 feet by 54 feet, are now being completed. A brick office, 20 feet by 42 feet, a fireproof powder house, a brick wash house, and 20 4-room miners' houses have been recently built. additional underground equipment is as follows: Eight short-wall mining machines, 61/2-foot bars; 100 21/2-ton mine cars; one 6-ton locomotive; a new 100 kilowatt generator and two additional boilers are now being installed.

The improvements made by the O'Gara Coal Company for the year are

shown for each mine as follows:

Mine No. 1.—Two 150 horsepower boilers and stacks; two 200 kilowatt motor generator sets; 50 2-ton mine cars; one boiler coal conveyor; one boiler and engine house, 103 feet by 56 feet frame structure, galvanized siding, asbestos roofing; one wash house, 40 feet by 50 feet; one fireproof underground mule stable, bottom enlarged and rearranged.

Mine No. 3.—One wash house, 40 feet by 50 feet; one boiler and engine house, 130 feet by 56 feet; one 10-ton motor; one automatic steam car lift;

bottom rearranged and enlarged.

Mine No. 8.—One 150 horsepower high speed fan engine; one 225 horsepower high speed engine; one 150 kilowatt generator; one 150 horsepower boiler and stack; two smoke stacks, 60 feet by 36 inches diameter; 50 pit cars, 2-ton capacity; one 10-ton locomotive; one boiler house, 110 feet by 60 feet; one wash house, 30 feet by 40 feet; one office and supply room, 16 feet by 26 feet; railway tracks relaid with heavy rails, 60-pound rails being placed on the bottom and main entries; bottom enlarged and retimbered; air courses cleaned and timbered; four short-wall mining machines.

Mine No. 9.—Fifty pit cars, 3-ton capacity; two smoke stacks, 60 feet by 36 inches in diameter; two electric pumps; two short-wall mining machines.

Mine No. 10.—Seventy-five pit cars; one 50 horsepower fan engine; one wash house, 40 feet by 50 feet; one lower section shaker screen; bottom retimbered and new north air course from bottom to 5th northeast completed.

Mine No. 11.—One wash house 40 feet by 50 feet; 75 pit cars.

Harrisburg Big Muddy Coal Company at No. 12 mine, has reset four boilers, installed 50 pit cars, 3-ton capacity, one 100 kilowatt motor generator set, built wash house and feed barn. At mine No. 14 a wash house, 40 feet by 50 feet has been built and north side of mine opened up by rebuilding 3,000 feet of motor road.

Harrisburg Saline Colliery Company at No. 15 mine, has built a wash house 20 feet by 30 feet, installed two short-wall mining machines, one 10-ton electric locomotive, one 250 horsenower boiler and one 150 kilowatt generator

and one 225 horsepower high speed engine.

The Dering Mines Company, mine No. 3, has made the following improvements: Three 18-foot by 72-inch boilers, 150 horsepower each; a coal crusher, 2,000 tons daily capacity; a machine shop and supply house; a high speed ventilating fan. In the interior of the mine 50 2½-ton mine cars and three 6½-foot cutter bar short-wall mining machines have been added. Air courses are being reopened and cleaned.

The Wasson Coal Company of Harrisburg has built a miners' wash house and installed one 200-kilowatt generator set at No. 1 mine. At No. 2 mine the following improvements have been made: Twenty 4-room miners' houses, one 150-kilowatt motor generator set, two short-wall mining machines one 7-ton locomotive, concrete portal and wings to mouth of slope and concrete man-way to bottom of slope. A wash house for miners has also been built.

The White County Mining and Power Company has made extensive improvements, the most important are as follows: Mule barn to hold 20 mules; 20 feet by 40 feet wash room; 16 feet by 30 feet office building; tipple rebraced and covered with galvanized sheeting; new 18-inch by 36-inch hoisting engines; two new self-dumping cages, a 6-foot by 42-foot shaker screen, and 60 new 2½-ton mine cars, have been added. The railroad yards have been increased to hold 27 loads and 27 empties. Arrangements are now being made to install a high speed ventilating fan, new boiler, generator and generator engine.

#### FATAL ACCIDENTS.

July 6, 1916, Henry Genrich, miner, age 56 years, single, was Killed in Sesser Coal Company's mine, Sesser, Franklin County, by being crushed between the end of a car he was loading and the face of his room. The car was blocked on the track, which had a pitch of about 5 per cent grade toward the face, when one block slipped allowing the car to run onto him.

July 25, 1916, Charles N. Mick, miner, age 50 years, married, was run over and killed by a pit car in O'Gara Coal Company's No. 9 mine, Dorrisville, Saline County. Just before quitting time, deceased and his partner were walking out of the mine along the main entry which dipped at about 2½ per cent grade in the direction they were going. The last motor trip for the day came from behind them and they stepped into a man-hole until it had passed when they resumed their journey. The noise of the on-going trip prevented them from hearing the approach of two cars which had gotten away from the drivers on the parting at the top of the hill, due to a lack of sprags at the proper place and the breaking of the emergency block, and the deceased was run over, resulting in his death about two hours later. He leaves a widow and seven children.

August 4, 1916, Charles Solo, miner, age 51 years, married, died from the effects of injuries received July 26, when two runaway cars from a motor trip struck an empty he was pushing in Producers Coal Company's mine No. 18, West Frankfort, Franklin County, He leaves a widow and three children.

August 15, 1916, Henry Taborn, motorman, age 24 years, married, employed in Wasson Coal Company's No. 2 mine, Carriers Mills, Saline County. while pushing a car loaded with iron pipes around a curve with his motor one of the pipes came in contact with the trolley wire and he was electrocuted. He leaves a widow and two children.

August 21, 1916, Frank Mundinger, miner, age 36 years, married, was killed by falling coal in Taylor Mining Company's Possum Ridge mine,

Freeman, Franklin County. He leaves a widow and five children.

September 8, 1916, Sanford McClintock, miner, age 48 years, married, was killed by falling coal in Taylor Collieries Company's No. 6 mine, Benton, Franklin County. He leaves a widow and one child.

September 16, 1916, Dennis Walker, miner, age 36 years, married, died from injuries received one week earlier by being caught under falling coal in O'Gara Coal Company's No. 9 mine, Dorrisville, Saline County. He leaves

a widow and three children.

October 2, 1916, Robert Steen, trackman, age 38 years, married, died from injuries received three weeks before in Christopher Coal Mining Company's No. 2 mine, Christopher, Franklin County. Deceased was laying track in a room-neck when he was struck by a car which the motorman was pushing in. He was knocked down and dragged 15 or 20 feet, resulting in death as stated. He leaves a widow.

October 11, 1916, Alex Destro, miner, age 30 years, single, was killed by pit cars in Sesser Coal Company's mine, Sesser, Franklin County. Deceased was caught between a loaded car and a runaway empty and crushed.

October 16, 1916, Ira Grimes, trackman, age 57 years, married, was killed by pit cars in Old Ben Coal Corporation's No. 8 mine, West Frankfort, Franklin County. Deceased was working in place of the regular trapper and, while propping the door open with a piece of board, the motorman, who was coming with a trip of loaded ears, shouted at him to get out of the way. He ran beyond the wide place where he was wont to stand to allow the trips to pass and stopped in a place where there were but a few inches between the ears and coal rib and was caught before the trip could be stopped. He leaves a widow.

October 17, 1916, W. R. Overby, machine helper, age 29 years, married, employed in Wasson Coal Company's No. 2 mine, Carriers Mills, Saline County, died from injuries received April 11. Deceased sat down upon the gob near the face of the entry to await the cleaning up of the coal so as to take the machine into the working place when a rock fell breaking his

back. He leaves a widow and three children.

October 22, 1916, George Toliski, driver, age 20 years, single, died from the effects of injuries received by being caught between pit cars and coal rib on October 16, in Producers Coal Company's No. 19 mine, West Frankfort, Franklin County.

October 24, 1916, John Morrison, miner, age 52 years, single, was killed by falling coal in Saline County Coal Company's No. 3 mine, Harrisburg,

Saline County.

October 28, 1916, P. Z. Midgett, miner, age 28 years, married, was killed in Taylor Coal Company's No. 6 mine, Benton, Franklin County, by falling coal. He leaves a widow and one child.

November 11, 1916, Frank Gilbert, timberman, age 31 years, single, employed by Middle Fork Mining Company, Benton, Franklin County, was

killed by falling coal. He leaves two dependents,

November 16, 1916, Lon Griffith, driver, age 27 years, married, was caught between pit car and coal rib and killed in W. P. Rend Colliery Company's mine, Rend, Franklin County. He leaves a widow and one child.

November 17, 1916, Clifford A. Smith, motorman, age 24 years, married, was struck by a falling prop and fell in front of his motor which ran over him, killing him instantly, in Chicago, Wilmington and Franklin Coal Company's mine, Orient, Franklin County. He leaves a widow. November 30, 1916, Floyd R. Bettis, loader, age 19 years, died from

injuries received on the 28th, in Middle Fork Mining Company's mine, Benton, Franklin County, by being eaught between a ear and the coal face. He leaves one dependent-mother.

December 10, 1916, John Edwards, driver, age 27 years, single, was killed in W. P. Rend Collieries Company's mine No. 1, Rend City, Franklin County,

by being caught between a pit car and coal rib.

December 14, 1916, Thomas Foster, miner, age 21 years, died from burns received the previous day in John A. Logan Coal Company's mine, Logan, Franklin County, when a pocket of gas was ignited. Deceased was crossing a fall in a room which had caved to determine where the machine, which was entting from the next room, would cut through. He carried a naked light which ignited the gas.

December 18, 1916, Elmer Deaton, trip rider, age 25 years, married, was killed in Saline County Coal Company's No. 3 mine, Harrisburg, Saline

County, by a pit car which had run away. He leaves a widow.

December 22, 1916, Louis Korco, miner, age 45 years, single, was killed by a motor in Christopher Mining Company's No. 2 mine, Christopher, Franklin County. Deceased was traveling along the main haulage way on his way to work when he was overtaken by a motor and stepped in front of it. In spite of the efforts of the trip rider, who was riding on the front end of the motor, to push him off the track, he was run over and death resulted ten hours later.

December 23, 1916, Wm. Lundak, trackman, age 44 years, single, died from burns received from an explosion of a pocket of gas on the 13th, in John A. Logan Coal Company's mine, Logan, Franklin County. This was the same explosion that caused the death of Thomas Foster, noted above. Deceased leaves one dependent.

December 23, 1916, Frank Grimes, motorman, age 21 years, single, was instantly killed when a pit car, which had been derailed and which he was blocking up, toppled over and crushed his head, in Saline County Coal Company's No. 3 mine, Harrisburg, Saline County. He leaves three dependents.

January 3, 1917, Loren O. Steinheimer, blacksmith, age 23 years, employed by United States Fuel Company, Benton, Franklin County, was found dead in his shop. His regular shift was from noon until 8 p. m.; a bright light in his shop at 10 p. m. attracted the attention of the night men, who upon investigation, found him lying upon the floor near the drill press, which was run by a small alternating current motor of 220 volts, stepped down from a high tension wire. No marks of violence or burns were found upon the body and although a verdict of electrocution was returned by the jury, there is no certainty as to the real cause of death. He leaves a widow.

January 13, 1917, John Estes, loader, age 46 years, married, was electrocuted in Eldorado Coal and Mining Company's mine, Eldorado, Saline County. Deceased was sitting in an entry cross-cut near his working place and close to a loaded car. In order for the driver to pass this car it was necessary for the deceased to move away and upon request he was doing so when he backed into a shallow hole became overbalanced and fell into the machine wires with the back of his neck against a live wire and in a sitting position upon the dead one. He was taken off almost immediately by the men who were with him and a prolonged attempt made by first aid men to resuscitate him but with no success. He leaves a widow and three children.

January 15, 1917, James Loman, driver, age 23 years, single, was caught between two pit cars and crushed to death in United States Fuel Company's mine, Benton, Franklin County. Deceased helped support his father, mother

and three sisters.

January 17, 1917, Vint Fugitt, electrician, age 39 years, married was electrocuted in O'Gara Coal Company's No. 3 mine, Harrisburg, Saline

County. He leaves a widow.

February 7, 1917, Adolph Den Carpentier, loader, age 47 years, single, was killed in United Coal Corporation's No. 2 mine, Buckner, Franklin County, by pit cars. Deceased was on his way to the bottom and had stepped to one side to allow a trip of empty cars to pass. The trip had come uncoupled and when he stepped on the track to resume his journey was struck by the uncoupled part, knocked down, run over and instantly killed.

February 14, 1917, Henry Myers, loader, age 43 years, married, was killed by falling coal in Bell and Zoller Mining Company's mine, Zeigler,

Franklin County. He leaves a widow and three children. February 21, 1917, John W. Pierce, dock boss, age 44 years, married, was killed by railroad cars at United States Fuel Company's mine, Benton,

Franklin County. He leaves a widow and two children.

February 26, 1917, Earnest Batty, driver, age 23 years, married, was killed in O'Gara Coal Company's No. 11 mine, Eldorado, Saline County. Deceased was driving a team from a mule parting to a motor parting with two loads and had reached the motor parting and evidently was unhooking the tail chain when he fell, the front car running upon him, killing him instantly. He leaves a widow and one child.

February 27, 1917, George Whaley, driver, age 24 years, single, was killed in W. P. Rend Collieries Company's No. 1 mine, Rend, Franklin County. Deceased was driving and while hooking the tail chain onto moving cars stepped onto the bumper; the cars ran against the mule, shoving the driver off the car against the rib. The mule then pulled the

car, squeezing him between the car and coal rib.

March 12, 1917, Arthur Johnson, loader, age 27 years, single, was killed by falling coal in O'Gara Coal Company's No. 3 mine, Harrisburg, Saline County. He leaves one dependent-mother.

March 14, 1917, Joe Gamber, trip rider, age 30 years, single, came to his death from injuries received by a fall of coal while working in the Christopher Coal and Mining Company's No. 1 mine, Christopher, Franklin County.

March 28, 1917, Charles Teamon, laborer, age 23 years, married, was killed at mine No. 2, Christopher Coal and Mining Company, Christopher, Franklin County. Deceased was taking refuse from the picking table. This table is moved slowly by means of a 3-foot cog wheel and 10-inch pinion. While in the act of shoveling the refuse onto the rock table he fell or was drawn into the cogs and killed almost instantly. He leaves a widow.

March 29, 1917, Stanley Smith, laborer, age 18 years, single, was killed by railroad cars at mine No. 2, United Coal Mining Company, Buckner, Franklin County. Deceased had just finished pinching a partly loaded car back to its proper position under the tipple and was leaning agains, the front end of the car when it was struck by four empties knocking him down and crushing him against the ground.

April 4, 1917, Natale Schrivanich, trip rider, age 28 years, single, was caught between end of car and coal rib and killed in Bell and Zollar Mining

Company's mine, Zeigler, Franklin County.
April 4, 1917, Sam Perpich, loader, age 42 years, married, was killed in Sesser Coal Company's mine, Sesser, Franklin County. Deceased was assisting timbermen to make safe a dangerous place in the roof. The roof began to chip and show signs of falling and in running away he tripped and fell and was covered with several tons of coal and shale. He leaves a widow and four children.

April 9, 1917, Johnathan Pickering, loader, age 38 years, married, was killed in O'Gara Coal Company's No. 9 mine, Harrisburg, Saline County. Deceased was helping place a derailed car on the track when he fell striking

his head against a rock, causing death eight hours later.

April 10, 1917, S. Noah McMurphy, fireman, age 35 years, married, was killed by explosion of a boiler at Old Ben Coal Corporation's mine, No. 8, West Frankfort, Franklin County. He leaves a widow and two children.

April 12, 1917, Ureis Parrott, laborer, age 46 years, married, was killed by railroad cars in Franklin Coal and Coke Company's No. 1 mine, Royalton,

Franklin County.

April 14, 1917, Peter Schroers, Jr., trip rider, age 18 years, single, employed in Chicago, Wilmington and Franklin Coal Company's mine, Orient, Franklin County, was killed. Through a misunderstanding of signals two motor trips were meeting; deceased jumped to where the rib was very close to the track and was dragged and rolled about three car lengths, resulting in almost instant death.

April 19, 1917, Ralph Harris, trip rider, age 24 years, single, was killed in Franklin Coal and Coke Company's No. 1 mine, Royalton, Franklin County. Deceased jumped off the motor to throw a switch and in doing so evidently twisted his foot upon a lump of coal throwing him down in the middle of the track and was rolled and crushed by motor. He died while being taken to shaft bottom.

April 23, 1917, Mike Mickner, shot firer, age 43 years, married, was killed in Chicago, Wilmington and Franklin Coal Company's mine, Orient, Franklin County, by being crushed between a pit car and side of cage. He

leaves a widow and three children.

May 2, 1917, Peter Doyle, laborer, age 50 years, married, was killed by a fall of coal in Old Ben Coal Corporation's No. 9 mine, Frankfort Heights,

Franklin County. He leaves a widow and three children.

May 9, 1917, Samuel Coleman, driver, age 32 years, married, employed in Franklin Coal & Coke Company's No. 2 mine, Royalton, Franklin County, was killed by being kicked by a mule. The accident was not considered serious at the time but he died in a few hours. He leaves a widow and five children.

May 12, 1917, Joseph B. Easton, miner, age 23 years, married; Walter Easton, miner, age 17 years, single; Walter Calhoun, mine examiner, age 30 years, married, and Claude Humphrey, miner, age 28 years, married, employed in Saline County Coal Company's No. 6 mine, Grayson, Saline County, were killed by an explosion of gas. Joseph B. Easton, Calhoun and Humphrey, each leave a widow.

May 14, 1917, Robert Council, cager, age 32 years, married, was killed in Taylor Collieries Company's No. 6 mine, Benton, Franklin County, by

pit cars. He leaves a widow.

May 25, 1917, Truman Jennings, driver, age 20 years, married, was killed in Wasson Coal Company's No. 1 mine, Wasson, Saline County. Deceased had brought his mule to assist another driver in placing a car onto the track on the haulage entry. After placing the car he turned his mule to pass between the car and rib when the other driver's mule started pulling the car and catching him between the car and coal rib. The accident occurred May 14, and at the time was not considered serious. He leaves a widow.

June 2, 1917, Andrew Dudash, assistant mine manager, age 34 years, married, was killed in Bell & Zollars' mine, Zeigler, Franklin County, by pit cars. Deceased had just removed a large piece of wood from the run-around switch which a motor with an empty trip was entering and was standing between the moving trip and a concrete wall. Two empty cars came from the automatic dump at the shaft bottom and crashed into the side of this empty trip turning one of the cars against the deceased crushing him so badly that he died in a few hours. He leaves a widow and two children.

June 7, 1917, Albert Mick, miner, age 49 years, married, was killed by falling slate in O'Gara Coal Company's No. 9 mine, Dorrisville, Saline County. He leaves a widow and four children.

Respectfully submitted,

J. E. Jones, Inspector, Benton, Illinois.

FATAL CASUALTIES, ELEVENTH DISTRICT, JUNE 30, 1917.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents,	Cause of death.
25 Aug. 4 15 21 Sept. 8 21 Sept. 8 0 Ct. 2 16 16 16 17 22 24 28 Nov. 11 18 22 23 23 1917 Jan. 3 13	Henry Genrich Charles N. Mick Charles Solo. Henry Taborn Frank Mundunger. Sanford McClintock Dennis Walker Robert Steen. Alex Destro. Alex Destro. Alex Destro. John Morrison. P. Z. Midvett Frank Gilbert Lon Griffith Cliford A. Smith Floyd R. Bettis John Estes John Estes Louis Korco. Wm. Lundak Frank Grimes Louis Korco. Wm. Lundak Frank Grimes Louis Korco. Louis Korco. Louis Korco. Louis Korco. Louis Korco. Louis Korco. Louis Korco. John Estes John Estes John Estes John Estes John Estes John Estes Jomes Lounan Vint Fugitt	50 51 24 36 48 36 38 36 57 29 20 52 28 31 27 21 25 44 21 23 46 23	do . do . do . Motorman . Miner . do . do . Trackman . Miner . do . Trackman . Miner . Trackman . Miner . Trackman . Miner . Driver . Miner . do . Trimberman . Driver . Miner . Timberman . Motorman . Loader . Driver . Miner . Miner . Miner . Miner . Miner . Driver . Miner . Miner . Driver . Miner . Driver . Miner . Driver . Miner . Driver .	Dorrisville. W. Frankfort. Carriers Mills. Freeman. Benton. Harrisburg. Divernon. Sesser. W. Frankfort. Harrisburg. W. Frankfort. Harrisburg. Benton. Patoca, Ind. Rend. W. Frankfort. Benton. Herrin. Muddy. Harrisburg. Christopher. Logan. Dorrisville. Benton. Eldorado. Benton.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	6 4 3 6 2 4 1 1 1 4 4 1 1 3 1 4 4 1 1 3 1 4 4 1 1 3 1 4 4 1 1 3 1 4 4 1 1 3 1 4 4	Pit ear. Motor. Pit ear. Pit ear. Gas explosion. Pit ear.

Date.	Name.	Age.	Occupation.	Residence,	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
14 21 26 26 29 29 Apr. 4 4 4 19 23 May 2 23 12 12 12 12 12 12 15 June 2	Adolph DenCarpentier. Henry Myers. John W. Pierce. Earnest Batty. George Whaley. Arthur Johnson. Stanley Smith. Natale Schriwanich. Sam Perpich. Johnathan Pickering S. Noah McMurphy. Ureis Parrott. Peter Schroors, Jr. Ralph Harris. Mike Mickner. Peter Dytle Samuel Goleman Josoph B. Easton. Josoph B. Easton. Josoph B. Caston. Toman Jennings. Andrew Dudash. Albert Mick.	43 44 23 24 27 30 23 18 28 42 38 35 46 18 24 43 50 32 23 17 30 28 23 46 46 47 48 48 49 49 49 49 49 49 49 49 49 49 49 49 49	do . Dock boss . Driver . do . Loader . Trip rider . Laborer . do . Trip rider . Loader . Trip rider . Loader . Trip rider . Loader . Trip rider . Loader . Dock . Trip rider . Loader . Driver . Miner . Mine . Cager . Driver . Mine . Mine . Mine . Massistant mine manager . Miner . Miner . Miner .	Benton Eldorado Benton Harrisburg Christopher .do. Buckner Zeigler Dorrisville W. Fraukfort Royalton W. Frankfort Royalton Gright Grayson Orient Frankfort His. Royalton Grayson .do .do .do .do .do .do .do .do .do .do				2 1 1 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pit ear. Falling rock. Fell, striking head against rock. Boiler explosion. Railroad cars. Pit ear. Motor. Pit ear Falling coal. Kicked by mule. Gas explosion. Gas explosion. Gas explosion. Gas explosion. Fit ear. Pit ear. Pit ear. Pit ear. Pit ear.

# RECAPITULATION OF FATAL ACCIDENTS, ELEVENTH DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Benton  Buckner  Buck	8 1 1 4 1 4 2 1 1 1 4 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Asst, mine manager Blacksmith Cager oss Cager oss Privers Electrician Fireman Laborers Loaders Machine helper Mine examiner Miners Motormen Shot firer Timberman Trackmen Trip riders	1 1 1 8 1 1 1 4 7 1 1 1 1 5 3 1 1 1 1 3 1 1 1 3 1 1 3 1 1 3 3 1 1 1 3 3 1 1 3 3 1 3 1 3 3 1 3 3 1 3 3 1 3 3 3 3 1 3	Boiler explosion Caught in mach ery East of the control of the control of the Falling rock. Falling rock. Falling state. Fell of the control of the control of the Gas explosion. Motor. Mule, kicked by. Pit cars. Railroad cars	1 4 8 2 1 2 1 6 3 1 22	Bell & Zollar M. Co. By-products Coke Corp. C., W. & F. Coal Co. Derring Mines Co. Franklin C. & C. Co. John A. Logan C. Co. O'Gara Coal Co. O'Gara Coal Co. W. P. Rend Coal Co. Saline Co. Coal Co. Sesser Coal Co. Taylor Coal Co. Wasson Coal Co. Wasson Coal Co.	
Total	55		55		55		ā

			_							
Dat	e.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
191 July	6	Charles Belkis Charles Matlow Fred Wlotzka Stanley Yukobinis. Stanley Yukobinis. Paul Suptich Thos. H. Chinn Elgin Carr John Green Wood. John Grimaldo. F. Green Wood. Nick Kraechon. John Grimaldo. F. Green Wood. Nick Kraechon. John Grimaldo. F. Green Wood. Nick Kraechon. John Grimaldo. F. Green Wood. The Wick Langer Stanles Flow. W. J. Brown. John Grocess. W. J. Brown. Sam Wakeland. Thomas Sofranka Peter Marion. Charles Bell. Thomy Selensky Albert Edwards. Thomy Kelensky Albert Edwards. Fred Weinlie. Arthony Bolkus. Fred Weinlie. Anthony Bolkus. E. A. Critz. T. W. Wright. Paul Brayfield. Martin Uratovich. C. Bloomer. Robert Rentfro. J. B. Coursey. Dewey Watkins. Tomy Yates. John Victical Stanles Flow. John Stirkulmes. John Kitkulmes. Jack Mink Wm. Neir. J. T. Rentfro John Senior Oscar Willis. J. T. Rentfro John Senior Oscar Willis. J. T. Rentfro John Senior Oscar Willis. J. T. Rentfro John Senior Oscar Willis. J. T. Rentfro John Senior Oscar Willis. Jones Flutton.	43	W. Frankfort	,		1	2	Finger broken, caught under	
	1	Charles Matlow	31	do			١,	2	Dlock	39 53
	7	Fred Wlotzka	38	do	1		3	4	Back injured, falling slate	300
	7	Paul Suntich	37 25	Benton	1 1		2	3	Body injured, falling rock	328 39
	8	Thos. H. Chinn	28	Eldorado	. 1		3	4	Head injured, falling rock	38
	10	John Carro	35	W. Frankfort	l'	;	3	4	Foot broken, falling rail	35 91
	11	Peter Kalado	24	Christopher		]			Back Injured, failing State Leg broken, jack pipe Body injured, falling rock Head injured, falling rock Ankle injured, fell from engine Foot broken, pit car Collar bone broken, pit car Foot injured, stepned on nail	36
	11	F. Greenwood	28 23	Sesser Christopher		1 1	····í	12	Foot injured, stepped on pail.	100
	13	Nick Kraechon	48	Sesser	1			;	Foot injured, stepped on nail. Head injured, falling coal. Body injured, falling coal. Toe broken, falling bar	*
	17	James Flinos	25	Buckner		· · · · j	2		Toe broken, falling bar	45 30
	18	W. J. Brown	61	Orient	1		5	6	Leg broken, motor Leg injured, falling coal Body injured, falling coal Leg injured, not stated Hand injured, falling rock Ankle jured folling coal	90
	19	Thomas Sofranka	41	Harrisburg	1		5	5	Body injured, falling coal	38 60
	19	Peter Marion	40	Christopher	1		. 2	3	Leg injured, not stated	63
	23	Tony Kelensky	30	Royalton		· · · i			Ankle injured, falling coal	104 30
	24	Albert Edwards	40	W. Frankfort	1	;	3	4	Foot broken, pit car	170
	24	Fred Weible	52	W. Frankfort	1		10	ii	Foot injured, motor	87
	26	John Chaffin	43	Benton	1		6	7	Body injured, pit car	66 40
	28	Anthony Bolkus	34	Dorrisville	i		3	4	Ankle mjured, falling coal Foot broken, pit car. Foot broken, motor Foot injured, motor Body injured, pit car. Foot broken, falling coal. Body injured, falling coal. Arm broken, falling coal. Collar bone broken, falling coal. Lee broken, fall of re-screener.	40
	29	E. A. Critz	34	W. Frankfort	1	;	1	2	Arm broken, falling coal	150 45
Aug.	1	Paul Brayfield	16	Christopher		i			Leg broken, fell off re-screener	
	1	Martin Uratovich	29	Zeigler		1			Body injured, falling coal Hand injured, pit car	51
	5	Robert Rentfro	33	Royalton	1		3	4	Leg broken, struck by hook	37 45
	6 7	J. B. Coursey Dewey Watkins	35 21	Sesser	1	····i			Foot broken, not stated	57 56
	8	Rosco Dunham	20	Grayson		î			Foot broken, pit car	38
	10	Tom Derretti Tony Yates	30 42	W. Frankfort	1	····i	2	3	Body injured, pit car Body injured, pit car Hand broken, pit car Body injured, pit car Body injured, pit car	72 *
	11	Joe Visintia	28	Christopher		ī			Body injured, pit car	*
	14	Elmer Bean	26 26	Sesser	1			1	Rib broken, pit car. Shoulder broken, pit car. Hand injured, falling coal Body injured, trolly wire Hand broken, falling slate.	32 57
	15	John Carli	23	do		1	;		Hand injured, falling coal	30
	17	John Dluzon	32 32	Harrisburg	1		1	2	Hand broken, falling slate	45 90
	17	Ora Bowcott	28	W. Frankfort	1		1	2	Leg injured, struck by board	58 40
	21	John Kitkulmes	35	Christopher	1	····i	2	°	Back broken, pit car Back broken, pit car Hand broken, motor Hand injured, pump	280
	23	Jack Mink	36	W. Frankfort	1		2	3	Hand broken, motor	252 43
	25	J. T. Renfro	38	W. Frankfort	ı		2	3	Foot injured, machine	50
	25	John Senior	35	Christopher	1	;	3	4	Foot injured, machine. Back injured, machine. Foot broken, fell off motor. Finger broken, falling coal.	30 49
	28	Louis Felton	31	do		î			Finger broken, falling coal	40
	29	Henry Reeves	23	Sesser		1		• • • •	Foot broken, caught in machin- ery	*
Sept.	1	Zello Bello	37	Eldorado	1		3	4	Log broken folling rock	120
	1	James Furno Joe Shelton	50 20	W. Frankfort Sesser	1	···;	3	1	Hand injured, machine wire Finger cut off, caught in ma-	37
	-1	H D. 11		D						33 35
	3	Henry Perkins	48	Eldorado	····i	1	2	3	Hand injured, falling coal Leg broken, falling slate	150
	5	Wm. Kerovitch	40	W. Frankfort		1		3	Leg broken, falling slate Back injured, falling coal	58 34
	6	Henry Perkins. John Lester. Wm. Kerovitch. James Moran. Thomas Malloy Oscar Karnes. G. W. Rainey. Joe Biondi. Mike Novinski. John Illyosovich. James Perry.	37	W. Frankfort.	···i	1	···· <sub>2</sub>	3	Leg injured, pit car	132
	6	Oscar Karnes	21	do	1			1	Hand broken, pit car	
	7	Joe Biondi	29	do	1	i	2	٥	Body injured nit car	54 37
	9	Mike Novinski	37	W. Frankfort	-:	1		• • • •	Leg broken, machine	90 80
	12	James Perry	48	Harrisburg	···i			· · i	Leg broken, machine. Arm injured, pit car Finger cut off, falling rock. Leg broken, falling rock	50
	14	James Perry Victor Barnes Anton Mitchell	27	Norris City		1	3		Leg broken, falling rock Arm injured, falling coal	31
	20	MILLOHOII	14		1		l "	1	anguicu, mining cont	-00

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Date.	Name.	Age,	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost
1010	1	1							
1916 Sept 19	Ine Navaek	26	Orient		1			Foot injured, falling coal. Body injured, pit ear. Back injured, pit ear. Back injured, falling rock Leg cut off, motor. Foot broken, motor Ribs broken, pit cars Leg injured, pit car Body injured, not stated. Leg broken, falling slate. Wrist broken, drill. Leg injured, pit car Foot injured, falling coal Legs injured, falling coal Legs injured, falling coal	
19	Sam LaFrank	23	Christopher		î			Body injured, pit ear	
21	Arnold Blades	28	W. Frankfort	1			1	Back injured, falling rock	
25	Wm. Gallagher	18	Christopher		1			Leg cut off, motor	
26	Arte Willis	18	W. Frankfort	;	1			Pibe broken, motor	
27	Edgar Cutsinger	25	Providence Kv	1	····i	-	0	Leg injured nit car	
30	John Senior	35	Christopher	1		3	4	Body injured, not stated	
Oct. 3	Barney Marcinko	36	Ledford	1			1	Leg broken, falling slate	1
3	Fred Parrish	21	Royalton	1	:		1	Wrist broken, drill	
4 5	R I Dieney	57	Horrichurg	····i	1		6	Foot miured falling coal	
6	James Edwards	27	W. Frankfort	i		2	3	Body injured, falling coal	
8	Anton Silvas	29	do	1		1	2	Legs injured, falling coal	
9	John Sullivan	30	Harrisburg	1		2 3	3	Hand broken, falling coal	
9	Frank Krevanich	35	Zeigler	1 1			4	Shoulder injured, gas explosion Wrist injured, fell	
19	Granville Hamriels	90	do do	1	···i		0	Finger broken nit car	
13	Nick Krainovitch.	29	Sesser	1			1	Finger broken, pit car Fingers injured, falling bar	
14	Angela Tesano	23	do		1			Body injured, pit ear	
16	Anton Silvas John Sullivan Frank Krevanich B. Sercleifer Granville Hamrick Nick Krainovitch Angela Tesano Richard Webster George Myers Assuri Nannini George Illyosovich Ed Bogart	21	W. Frankfort	1			1	Finger injured, pit car	
17	George Myers	10	Christophon	1 1		6	7	Back injured, falling coal Hand injured, pit car	
17	George Illyosovich	26	Zeigler	l	· · · i		· '	Leg cut off, motor	
18	Ed Bogart	36	Orient	1		2	3	Leg cut off, motor Finger cut off, falling rail	
18	John Tenosky	20	Sesser		i			Finger broken, coal fell from car Leg broken, falling coal	
18	J. E. Magner	49	W. Frankfort	1	;	5	3	Leg broken, falling coal	H
21	C Richardson	21	Orient	;	1			Rib broken pit car	
23	Jacob Visobiek	31	do	î		1	2	Finger broken, pit car	
24	W. L. Williams	29	Eldorado	1		1	2	Foot injured, pit car Rib broken, pit car Finger broken, pit car Leg broken, falling coal	
26	Joe Toth	36	Ledford	1		3	3	Leg injured, pit car Leg injured, falling coal Foot broken, machine	
26	Paul Norbest	29	W. Frankfort	1		1	2	Leg injured, falling coal	
26	Dave Morgan	56	Rend		1			Ankle injured, falling coal	
26	Charles Hackle	25	Christopher	1			1	Body injured, falling slate	
26	Arthur Dale	19	Zeigler		1			Finger cut off, pit car Leg injured, motor Body injured, pit car	
28	Joe Coveglio	28	Sesser		1		;	Leg injured, motor	
29	Hosea McDonald	18	Logar		1		1	Leg burned bot water	
31	L. G. Smith	34	Harrishurg	1		4	5	Leg broken, falling coal	
31	V. Boswell	29	Sesser	î			1	Leg burned, hot water Leg broken, falling coal Leg injured, falling rail Foot broken, falling coal	
lov. 1	E. S. Cummins	26	Harrisburg		1			Foot broken, falling coal	
.1	W. W. Wilkie	35	Galatía	1	;	1	2	Body injured, pit car	
9	I W Chambare	52	W Frankfort	····;	1	<u>A</u>	5	Arm broken pit car	ĺ
3	E. B. Hewlitt	38	do	i		2	3	Finger broken, pit car Arm broken, pit cars Ankle broken, falling coal Arm injured, fell down	
3	B. Boscardine	45	Sesser	1			1	Arm injured, fell down	
4	Assuri Nannini George Illyosovich. Ed Bogart. John Tenosky J. E. Magner. Herman Dauzay. C. Richardson. Jacob Visobiek W. L. Williams Joe Toth. Paul Norbest Charles Hackle. Arthur Dale Coveglio. Be Coveglio. George Mellor L. G. Smith V. Boswell E. S. Cummins W. W. Wilkie E. S. Cummins W. W. Wilkie E. B. Hewlitt B. Boscardine Ralph Adams, Jr John Zemgulis E. G. Biggs George Slamenko vish.	18	Christopher	;	1		·	Leg broken, motor,	
E	F G Bigge	30	W Frankfort	1	· · · · i	3	3	Arm broken, falling slate Body injured, cage	
8	George Slamenko	120	W. Flankion		*			Body injured, cage	1
	vish	32	Zeigler		1			Body injured, fell down	
8	Harry Beardon	29	W. Frankfort	1			1	Finger cut off, shaker screen	i.
11	George Slamenko- vish. Harry Beardon. Andrew Palo. George Cuthbertson	3	Orient	1	;	5	6	Eye injured, flying coal Hand broken, pit car	
11	Lohn Boni	35	Christopher		1			Foot broken fulling coal	
11	Conrad Heck	3	do	· · · i			1	Foot broken, falling coal Collar bone broken, pit car	
11	Asa Sharpe	21	Benton		1			Back injured, cage	
11	W. J. McGuire	44	do	1		4	5	Leg broken, falling coal	ı.
13	Warren Smith	10	Eldorado	1		0	0	Finger broken, pit car. Leg broken, falling coal	
14	James Turner	3	Christopher	1			1	Body burned, explosion of caps	
18	Ed. Jackson	38	Grayson	i		1	1	Foot broken, machine	1
18	R. S. Hutcheraft	21	W. Frankfort		1			Foot broken, machine.  Body burned, gas explosion	
19	Edward Smith	2	Benton		1		:	Foot broken, pit car Leg injured, motor Back injured, pushing car	
23	Steve Uranich	3	W Frankfort	1			1 2	Rack injured pushing cor	
23	Charles Latukes	30	Ledford	1		1	1	Leg broken, pit car	
28	John Pullis	38	Wasson	i		1	2	Leg broken, pit car. Body injured, kicked by mule.	
26	Jess Moore	23	Harrisburg		1			Fingers broken, falling rock	
26 26 27	vish, Harry Beardon Andrew Palo, George Cuthhertson John Boni Courad Heek Ass Sharpe, Lohn Britton Warren Smith James Turner Bed Jackson R. S. Hutcheraft, Edward Smith Steve Uranich Mike Wasiseo Charles Latukas John Pullis Jess Moore John Priest	23	Harrisburg Carriers Mills		i	5	6	Fingers broken, falling rock Body injured, falling slate	

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents,	Character of injury and cause of accident.	Time lost-
1916	Whitley Smith. John Morgan. Tony Gauther. Elmer Dukes. Tony Gauther Elmer Dukes. Thos. Artman. Jonas Kidd Jonas Kidd Jonas Kidd Jona Kidd Jonas Kidd Jona Kidd Jona Gauther Frank Bradley. Dan Tinnia Charles Bennett. Wm. Meekin. Theodore Parker. Earl Fears. O. T. Swinney. John Babil. Tom Hunter. H. T. Summers. Sam Anderson. Wm. Murphy. Earnest Russell Albert Meddelon. Battaite Banetti. Ben Tomento. Wm. Murphy Luther Morris. Joe Bennett. Ben Tomento. John Stalles Banetti. Joe Walker. Stanley Babits. Louis Tinton. John Tonskus. Leslie Sherfield. Lawes Hall. Lawes Hall. John Tuskus. Leslie Sherfleld. Lawes Hall. Law								1
Nov. 27	Whitley Smith	36	Christopher	1	;		1	Foot injured, falling wrench	
27	Tony Gauther	31	W Frankfort	···;	1	····à		Hand injured, spike par	
28	Elmer Dukes	30	Gravson	î		1	2	Body injured, nit car	
28	Thos. Artman	32	W. Frankfort		1			Foot injured, mule stepped on .	١.
29	Jonas Kidd	25	Sesser		1			Finger injured, spike bar.  Hand injured, not stated.  Body injured, pit ear.  Foot injured, mule stepped on Collar bone broken, pit car.	
Dec. 4	Joe Cunningham	23	Wasson	1	;		1	Body injured, pit car	
6	Frank Bradley	21	Graveon	;	1			Leg broken felling gool	
7	Dan Tinnia	50	Equality	i		2	2	Foot injured, falling coal	
7	Charles Bennett	39	Logan	1		1	2	Collar bone broken, pil car Body injured, pit car, Body injured, eccentric shaft. Leg broken falling goal. Foot injured, falling goal. Foot injured, falling goal Hand injured, railroad car. Body injured, pit car. Pelvis bone broken, pit car. Foot cut off, motor. Leg injured, motor. Body burned, gas explosion. do. do. do. Ankle broken, struck by rope.	1
8	Wm. Meekin	24	do		1			Body injured, pit car	İ
10	Theodore Parker	24	Carriers Mills		1		2	Pelvis bone broken, pit car	١,
12	O T Swinney	21	Rend		1 1		1	Leg injured motor	1
13	John Babil	30	Logan	· · · i		2	3	Body burned, gas explosion	
13	Tom Hunter	27	do	ī		3	4	do	
13	H. T. Summers	34	do	1		1	2	do	
13	Sam Anderson	35	Christopher	1	• • • • •		1	Ankle broken, struck by rope	
13	Earnest Russell	28	Liberty	i			1	Finger broken, not stated	
14	Albert Meddleton	27	W. Frankfort		1			Leg injured, pit car	
14	Battıste Banetti	31	Orient		1			Finger broken, drag chain	1
14	J. L. Wright	23	Christopher	;	1			Body injured, pit car	1,
15	Johnston Marteni	26	Soccor	1	;		1	Leg injured, motor	1
16	Joe Bennett	24	W. Frankfort		1			Head injured, pit car	
16	Ben Tomento	28	do		î			Finger injured, falling coal	
16	Wm. Sneedon	51	Sesser	1				Body injured, falling coal	
18	Jack Bear	63	Eldorado	1		4	5	Arm broken, falling slate	
18	Loe Walker	19	W. Frankiort		1		· · · · i	Foot injured machine	
19	Stanley Babits	26	Wasson	· · · i			î	Ankle broken, struck by rope Body injured, pit cars. Finger broken, not stated Leg injured, pit car. Finger broked, of the car. Leg injured, pit car. Leg injured, pit car. Leg injured, motor Leg injured, motor Head injured, pit car. Finger broken, falling coal. Body injured, falling coal. Body injured, falling state. Finger cut off, pit car. Foot injured, machine. Body injured, pit car. Shoulder injured, pit car. Body injured, pit car. Body injured, pit car. Body injured, pit car. Leg injured, falling slate. Leg injured, cage. Body burned, gas explosion Finger broken, pit cars. Leg broken, pit cars. Leg broken, pit car. Leg broken, pit car. Leg broken, pit car. Leg injured, oage. Leg injured, motor. Leg injured, buckets. Leg injured, ont stated.	
19	Louis Tintoni	38	Rend	i			1	Shoulder injured, pit car	
21	John Tuskus	33	do		1			Body injured, pit cars	
25	Leslie Sherfield	18	Harrisburg	;	1		;	Leg injured, falling slate	
27	Charles McManan	14	Wassen	1 1		8	7	Leg broken, pit cars	
27	James Hall	50	Norris City	î		1	2	Body burned, gas explosion	
28	A. Ferratte	21	W. Frankfort		1			Finger broken, pit car	
29	Paul Barnett	20	Dorrisville		1			Leg broken, pit cars	
30	Paul Toth	27	Harco	;	1	;		Hand injured, buckets	
1917	JOHN D. Jackson	24	Zeigier	1		1	_ 4	Leg injured, motor	1
an. 1	Willie Hancock	17	Carriers Mills		1			Arm injured, not stated Foot injured, falling rail Head injured, fell off car Body injured, pit car Fingers cut off, pit cars Eye injured, foreign substance Finger cut off, pit car Toe injured, not stated. The finger broken rail and block	
1	Henry Bradley	23	Eldorado	1			1	Foot injured, falling rail	
3	John Terrari	41	W. Frankfort	1		1	2	Head injured, fell off car	1
4	Peter Caeper	15	Royalton	1	· · · · i	1	-	Fingers out off pit cars	
5	Anton Bozzonia	40	Christopher	ı i			1	Eve injured, foreign substance	
5	John Signago	40	Hurst	1		5	6	Finger cut off, pit car	
5	Tony Rupjak	48	Benton	1		3	4	Toe injured, not stated	
8	Zigmund Kinsman.	18	Royalton	;	1		;	Finger broken, rail and block	
8	Ice Montagria	26	Christopher	1	· · · · i	-	0	Rody injured nit cars	
8	John Steffle	40	W. Frankfort.	· · · i		2	3	Leg injured, falling slate	
8	Wm. Seward	30	Dorrisville	1		2	3	Body injured, pit car	
9	Logan Stewart	25	Harrisburg	1		1	2	Back injured, falling slate	
10	Charles Pallie	49	W. Frankfort	1	;		1	Hand broken pit car	1
10	Tom Brummett	29	do	i i	1 1	i	2	Leg cut off, pit car	Ιí
10	John B. Jackson. Willie Hancock Henry Bradley. John Terrari Carl Moore Peter Casper Anton Bozzonia. John Signago. Tony Rupjak. John Signago. J	22	do		1			Finger broken, rail and block. Wrist broken, struck bar. Body injured, pit cars. Leg injured, calling slate Body injured, pit car. Back injured, pit car. Back injured, pit car. Hand broken, pit car. Leg cut off, pit car. Arm injured, cable. Leg broken, falling coal. do.	Γ
11	Tony Inarti	26	Freeman		1			Leg broken, falling coal	
11	Anton Golley	29	do	;	1	;		East business falling and	١,
11	Walter Henley	159	do do	1	• • • • •	1	2	Too broken falling coal	]
12	Ray Moak	20	W Frankfort	1	· · · · i	1	2	Hand injured, pit car.	
13	Joe Ballomi	25	Freeman		1			Leg broken, falling slate	
15	Maurice Caton	22	Grayson	1			1	Good broken, falling coal. Toe broken, falling coal. Hand injured, pit car. Leg broken, falling slate. Body injured, pit cars.	
15	Tom Swinney	18	do		1			Ribs broken, pit cars Hand broken, machine Rib broken, fell	

Date.	. Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Collar bone broken, pit cars Leg injured, eage, and the burned, powder explosion Body burned, powder explosion do, do, do, do, do, do, do, do, do, do,	Time lost—
1917									
an, 17	Frank Lewis	22	W. Frankfort	:	1		;	Collar bone broken, pit cars	3
17	C. E. Dillon	33	Sesser	1		····i	1	Rody burned, powder explosion	12
19	Win. Maitland	38	Royalton	î		4	5	Body burned, gas explosion	7
19	James Dickerson	36	do	1		2	3	do	4
19	A Rendensky	23	do	1	····i		1	do	6
20	Richard Stone	35	Grayson	i		2	2	Ribs broken, pit ear	4
21	August Nicoletti	37	Rend		1			Leg injured, falling slate	3
22 25	Alex Dybenski	28	Benton	····i	1	3	4	Foot injured, machine	14
26	Frank Rashie	29	Royalton	1		2	3	Back injured, falling coal	3
26	B. Brozozoski	30	W. Frankfort		1			Body injured, cage	3
20	Frank Rosoka	25	Zeigler		1			Body injured, pit car	10
29	Ted Solvan	39	Orient	1		2	3	do	15
30	Walter Norville	22	Royalton		1			Foot injured, folling visto	1
30	Wm. Galloway	22	Benton	1		1	2	Body injured, pit ear	14
30	Henry Hinkle	22	do	I			1	Back injured, pit ear	3
30	Otto Grooff	30	Christopher	1		1	2	Foot broken pit ear	10
31	Mike Pavlovie	29	W. Frankfort	î		2	3	Ankle broken, falling timber	8
Feb. 1	John Prattier	41	Equality	1	;	6	7	Arm injured, motor	3
1	Louie Cheardo	18	W. Frankfort		1			Arm injured, pit car	1
3	Theodore Causler	23	Eldorado	1		2	3	Arm broken, pit ear	1 3
3	Marion Carter	25	Christopher		1			Leg broken, railroad ear	11
5 S	G W Hinson	27	Eldorado	····;	1	1	2	Back injured, filling slate	13
9	Tony Zunning	52	Orient		1			Collar bone broken, pit car	7
10	Steve Korts	25	W. Frankfort		1			Collar bone broken nit car	3
12	John H. Evans	24	Elorado	1	· · · i		3	Hand injured, falling coal	3
12	Charles Watson	27	W. Frankfort		1			Foot broken, falling coal	4
12	Mike McClance	25	Rend		1		····i	Ankle burned steam	3
12	Frank Clark	46	W. Frankfort	1		2	3	Body injured, falling coal	3
12	Marion Danley	. 23	Benton	1			1	Leg broken, pit ear	10
14	Howard Harrison	20	Christopher	1	1	0		Foot broken, pit ear	1,11
14	Lon Miller	33	W. Frankfort	1		1	2	Hand injured, eaught in bits	1.6
15	Frank Wilgus	38	Harrisburg	1		1	2	Leg broken, kicked by mule	10
17	Tony Baldwin	33	Gravson		1			Hand broken, falling slate	1
19	Marion Harper	. 26	W. Frankfort		1			Leg injured, not stated	1
20 20	W. H. Maxwell	97	do Harrisburg	1		3	4	Eve injured flying pail	1 4
20	Norman Slater	21	W. Frankfort		1			Finger broken, pit car	
22	Gaston Cresson	. 43	Christopher		1			Back injured, lifting ear	1
22	D. A. McBride	18	Sesser.	1	11		····i	Arm broken, falling timber	1
23	Wm. Flynn	. 50	Rend	1			1	Eye injured, flying coal	
23	Fred Cabaness	. 21	W. Frankfort	;	1			Foot broken, motor	
26	Ross Dixon	26	Ledford	li			i	Rib broken, kicked by mule	
26	Herman Eubarks	. 35	Rend	1		6	7	Hand injured, pit ear	1
Mor 28	Ed. Kennedy	. 2	Harrisburg		1			Foot Injured, motor	1
2	Steve Zoufgast	36	Zeigler	1			1	Leg cut off, pit ear	
2	Steve Peters	20	W. Frankfort		1			Finger broken, pit ear	
3	Andrew Malic	56	Christopher	1	1	3	4	Finger injured, falling coal	
7	John Trail	49	Norris City		1			Arm broken, pit ear	
7	T. J. Dennis	53	Ledford	1		3	4	Leg injured, pit ear	
10	J. R. Hul	50	W. Frankfort			i	9	Leg broken, falling eoal	
16	Wm. Hatton	. 30	Benton	i			6	Body injured, pit ear	
13	Geo. Novak	4:	W. Frankfort.	1		3	-1	Rib broken falling rope	
1.0									
13 12	W. Walkenshaw	4.	W. Frankfort		i			Toe broken, motor	

	Name.  Name.  Wm. Rowa Golumbas Borees Harley Bowlin. H Perryman Geo. Burlison Geo. Burlison Geo. Burlison Geo. Grons Golumbas Go	Age.	Residence.	Married.	Single.	Children.	Dependents	Character of injury and cause of accident.	Time lost-
1917					1		1		Ī
far. 13	5 Wm. Rowa	30	W. Frankfort		1		····i	Eye injured, flying coal	
17	Harley Bowlin	24	Christopher		i			Leg broken, pit car Hand broken, pit car	
17	H. Perryman	24	Logan	1		1	2	Hand broken, pit car Ankle broken, falling coal	
10	Walter Giltosky	34	Harrisburg	1		9	9	Body injured, falling coal Collar bone broken, pit cars	
20	Charles Dungy	29	Logan		1			Pelvis broken, pit car Eye injured, flying coal	
20	J. C. Torns	57	Christophor	1		1	2	Eye injured, flying coal	
21	I E. Miller	27	W. Frankfort	1	1	1	2	Head injured, pit car. Body injured, pit car. Wrist broken, pit car. Body injured, falling coal Finger injured, falling coal	
22	C. E. Stations	36	do	ī		2	3	Wrist broken, pit car	
22	2 Horton Owens	30	Sesser	1			1	Body injured, falling coal	
24	Herman Nelson	21	Gaskin City		i	3	2		
25	Joe Nagy	44	Zeigler		1			Finger cut off, caught in sheave	
26	Charles Iovando	38	Christopher	1 1		2	3	Body injured, falling coal	
27	A. M. McMahon	17	W. Frankfort		1		4	Shoulder injured, pit car	
27	Richard Knowles	52	Ledford	1	;	5	6	Body injured, pit car	
28	Bob Gregory	30	Harrisburg	1	1		· · · i	.do Ankle broken, falling coal Leg broken, falling coal Leg broken, caught in fly wheel Shoulder injured, pit car Foot broken, not stated Leg broken, falling coal Leg injured nit car	
29	Robt Kennedy	42	Eldorado	ì		7	8	Leg broken, falling coal	
pr. 2	Allen Beltz	45	Equality	1		3	1	Leg broken, caught in fly wheel	
2	Marion Kingston	42	Equality	i		3	4	Foot broken, not stated	
4	Wm. Rewski	46	W. Frankfort	1		2	3	Leg broken, falling coal	
5	Charles Taborn	18	Carriers Mills	;	1			Leg injured, pit car	
6	Louis Bullett	29	Zeigler	i		2	3	Body injured, lifting rail	
7	Orval Head	21	Eldorado		1			Leg injured, pit car	١.
10	John Falet	17	W. Frankfort	1		2	3	Leg injured, pit car. Arm injured, eaught in chain. Body injured, litting rail. Leg injured, pit car. Leg broken, falling timber. Foot broken, pit car. Body injured, struck by bor.	1
12	A. M. Brannon	34	W. Frankfort	···i		i	2	Body injured, struck by bar	
13	Joe Zishola	42	Sesser		1			Body injured, struck by bar Body injured, pit car Head injured, pit car	
17	Ernest Garrison	20	Christopher		1			Finger broken, not stated	
23	Dewey Thorpe	17	Plumfield		î			Finger proken, not stated Foot broken, pit ear. Eye injured, flying coal Leg injured, pit car do Leg injured motor Foot injured, not stated Foot injured, pit car Body injured, falling slaber Body injured, falling slaber	
23	Frank Simmons	40	Rend	1		4	5	Eye injured, flying coal	
23	Joe Hatler	23	Eldorado	, 1			í	do	
25	Ira Donovan	25	Orient		1			Leg injured motor	
26	Riley Blair	36	Rend	1		4	5	Foot injured, not stated	
27	James Cozert	34	Harrisburg	···i	1	4	5	Body injured, falling timber	
27	Robert Fornear	20	Sesser		1			Body injured, falling slate	
28	Thomas Barker	24	Logan	;	1		••••	Body injured, falling slate. Foot broken, pit car. Leg injured, falling coal Hand broken, pit car. Leg injured, fell.	
30	Irvan Pitchford	19	Buckner		1			Hand broken, pit car	
ay 2	Wm. Shelton	50	Christopher	1	;	2	3	Leg injured, fell	
4	Andy Gilrieth	35	do	···i	1	• • • • •	····i	Hand injured, pit cars Arm broken, falling coal Collar bone broken, pit car Ankle broken, trap door Ankle broken, falling coal Hand injured, pit car	
4	Hugo Kinderman	38	Buckner	ī		1	2	Collar bone broken, pit car	
ā	M. C. Coxen	32	Eldorado	;	1			Ankle broken, trap door	
8	Walter Zelenskis	31	W. Frankfort		· · · i	'		Hand injured, pit car	
8	Maso Menorich	36	Christopher		1			Hand injured, pit car. Back injured, lifting car. Leg broken, falling coal.	
15	George Aaron	37	Harrishurg	1	• • • •	2	3	Body injured, falling timber	
12	John Torrento	27	W. Frankfort		1			Foot broken, falling coal	
14	Pat Castello	45	Harrisburg	1	;	2	3	Foot broken, pit car	
16	Louis Schalfoski	47	Zeigler	1	1		1	Body injured, failing tumoer. Foot broken, failing coal. Foot broken, pit ear. Foot injured, motor. Leg broken, pit ear. Leg broken, pit ear. Leg broken, pit ear. Body injured, failing rock Head injured, failing prop. Ankle broken, fell off botler. Eve Injured.	
17	Hugh Devlin	34	Rayalton		1			Leg broken, pit cars	
18	Samuel Cole	39	Harrisburg	1		2	2	Body injured, falling rock	
18	John Carpenter	35	Royalton	1		2	3	Ankle broken, fell off boiler	
20	J. J. Knight	38	Benton	î		3	4	Eye injured, mule	
21	Sirah Blackwell	20	Carriers Mills		1			Eye injured, mule. Foot broken, pit car. Hand broken, pit car. Finger broken, not stated Back injured, falling coal.	
21	C. R. Lowman	28	W. Frankfort		1			Finger broken, not stated	
22	M. W. Atwood	40	do	1		3	4	Back injured, falling coal Leg broken, not stated	

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character. of injury and cause of accident.	Time lost—days.
June 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Wm. Taylor. Charles Kustucdich Geo. Vierovec. Ed O'Neal. James Vancil. Zig Vayde. John O. Henry. Alvin Odle. G. O. McBride. Wayne Fiveact. Joe Gelday. Ruben McElyea. Roy Mackvick. Wm. Marvel. Theo. Parks. Walter Adams. Charles Baker. James Reinheimer.	29 32 50 30 48 33 17 20 24 21 21 21 22 17 23 21 20 19	Eldorado Christopher Rend Orient W. Frankfort Harco Zeigler W. Frankfort Benton W. Frankfort G. Orient W. Frankfort Jorient Benton Stonefort Benton Eldorado	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1	3	1 1 5 2 1 1	Leg injured, coal fell off car. Arm broken, falling slate. Hand injured, not stated. Finger cut off, exploding cap. Leg broken, motor. Arm burned, steam. Ankle injured, machine. Leg injured, pit car. Foot broken, pit car. Foot broken, pit car. Hand broken, pit car. Leg injured, pit pit car. Body injured, pit pit car. Body injured, fell off car. Body injured, pit car. Hand broken, pit car. Collar bone broken, slate fell off railroad car. Leg broken, pit car. Hand injured, pit cars.	*** 30 ** ** 30 ** ** ** ** ** ** ** ** ** ** ** ** **
Number Number	ot returned to work J injured not returned to wor nber returned	k.	3	74 55 19				men returned, days	

### RECAPITULATION OF NONFATAL ACCIDENTS, ELEVENTH DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Benton Buckner Carriers Mills Christopher Dorrisville Eldorado Elizabeth Equality Freeman Galatia Gaskin City Grayson Harros Harros Wascon Horrisville Liderty Logan Norris City Orient Plumfield Rend Rend Rend Royalton Sesser Stonefort Wasson West Frankfort Edgler Frovidence, Ky	$\begin{array}{c} 22\\ 5\\ 10\\ 47\\ 3\\ 21\\ 1\\ 6\\ 3\\ 1\\ 1\\ 2\\ 2\\ 5\\ 1\\ 8\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 9\\ 0\\ 1\\ 5\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	Asst. mine manager Blacksmiths Gagers Garges Carpenter Couplers Drivers Electrician Engineer Fireman Foremen Laborers Loaders Machine elepers Machine numers Machine numers Toremen Loaders Tripriders Tripriders	3 2 8 1 11 48 1 1 1 2 48 777 9 38 1 466 8 2 5 5 3 3 54	Cage Cangh by objects Cangh by objects Calling coal Falling rock Falling slate Fell Falling slate Fell Gas explosion Lifting objects Machine Motor Mule Pit cars Powder explosion Powder explosion Struck by objects Not stated	5 11 64 9 19 11 5 10 2 11 1 3 4 2 1 15	Bell & Zollar M. Co. Benton Coal Co. Lenton Co	1

RECAPITULATION OF NONFATAL ACCIDENTS, NATURE OF INJURIES, CONJUGAL RELATIONS, AND TIME LOST, ELEVENTH DISTRICT, 1917.

		1.		m.	lents.	Time los	t—days.	age uries.
Nature of injuries.	Number.	Married.	Single.	Childrem.	Dependents.	Total.	Aver- age.	Percentage of Injuries.
Ankle broken¹ Ankle injured¹ Ankle injured¹ Arm broken² Arm injured Body burned Body burned Body burned Body injured³ Collar bone broken¹ Eye injured³ Finger or ken¹ Finger injured¹ Foot broken³ Foot eut off Foot injured¹ Hand broken⁴ Hand injured¹ Leg broken² Leg uit off Eye injured³ Body injured³ Foot broken³ Foot eut off Foot injured¹ Hand broken⁴ Hand broken⁴ Hand injured³ Leg injured³ Leg broken² Leg cut off³ Body injured³ Leg broken² Broken² Br	9 6 12 10 15 11 11 8 17 12 6 32 1 1 15 19 8 43 4 4 377 2 8 5 5 4 5	8 3 9 6 10 9 35 5 7 4 4 4 4 12 2 2 2 2 2 2 2 2 2 2 4 4 4 4	1 3 3 4 4 5 2 2 2 2 2 2 2 2 2 2 2 1 7 7 10 11 1 3 14 2 17 2 1 1	16 3 17 14 17 14 74 7 7 7 7 7 7 7 6 6 27 27 21 10 10 10 10 10 10 10 10 10 10 10 10 10	24 6 25 20 30 23 111 10 23 11 11 10 34 14 40 93 3 48 2 21 11 12 40 10 93 48 11 11 11 10 93 11 11 11 11 11 11 11 11 11 11 11 11 11	568 573 436 1,366 6,146 2,430 381 414 414 414 417 450 1,50 1,50 1,124 1	71. 00 46. 80 71. 71 43. 60 97. 57 55. 82 52. 83 42. 83 42. 83 45. 60 41. 60 41. 60 41. 60 41. 60 41. 60 43. 69 50. 64 43. 69 50. 64 43. 69 50. 64 43. 69 50. 64 66. 60 66. 60 67. 55 68. 60 68.  2, 40 1, 60 3, 21 2, 67 4, 01 15, 24 15, 24 15, 24 2, 94 2, 94 2, 94 2, 14 1, 60 8, 66 8, 66 1, 60 1, 10 1, 10	
Total	374	212	162	427	627	20,005	62.71	100.00

<sup>1</sup> One not returned to work.
2 Four not returned to work.
3 Eleven not returned to work.
4 Two not returned to work.
5 Six not returned to work.
6 Three not returned to work.
7 Nine not returned to work.



					Disposi	tion of o	ıtput	
Number.	Nam of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars .or ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	SHIPPING MINES.  Old Ben Coal Corp., No. 8. Bell & Zoller M. Co., No. 1. Cni., Wilm. & Franklin C. Co. No. 1. Old Ben Coal Corp., No. 9. Old Ben Coal Corp., No. 14. Old Ben Coal Corp., No. 10. Old Ben Coal Corp., No. 10. Old Ben Coal Corp., No. 10. Old Ben Coal Corp., No. 10. Old Ben Coal Corp., No. 10. Old Ben Coal Corp., No. 10. Franklin C. & C. Co., No. 1. Sesser Coal Co., No. 1. John A. Logam Coal Co., No. 1. John A. Logam Coal Co. W F. Rend Collieries Co. W F. Rend Collieries Co. Taylor Mining Co., Wo. 5. United States Fuel Co., M. F. Taylor Mining Co., Wo. 6. Franklin C. & C. Co., No. 6. Franklin C. & C. Co., No. 6. Franklin C. & C. Co., No. 2. Total—21 mines.	Zeigler Orient W. Frankfort Christopher do do do do W. Frankfort Royalton Sesser Benton Logan Rend W. Frankfort do do do do do do do do do do do do do	1,065,359 1,008,474 933,141 891,882 869,504 656,261 641,427 624,714 555,505 509,324	920,872 855,316 793,181 694,294 478,797 555,936 549,391 521,088 338,874 415,786 273,672 311,619 287,762 262,743 260,814 205,086 190,617 59,224	1,085	63,148 42,360 64,074 142,497 157,602 64,074 58,323 145,448 65,553	2,468 2,065 4,530 4,284 1,973 7,051 3,612 5,000 3,623 15,078 3,000 1,964 1,935 3,259	22,389 30,929 30,343 30,740 12,811 17,805 12,000 30,794 25,002 10,000 1,891

Mines in 1916, 19. New mines, 2. Mines in 1917, 21.

#### GALLATIN COUNTY,

=	1			,		 1	
	SHIPPING MINES.						
1	Hickory Hill Coal Co., H. K	Junction, R.	40,000	01 001	1.000	040	
2	Northern Coal Co., No. 4	F. D. No. 1 Equality	62,829 53,316	61,381 49,884		 240 432	3,000
	Total		116,145	111,265	1,208	 672	3,000
	LOCAL MINES.					 	
1	Frank Genor & Son	Equality	3,883			 3,883	
2	W. R. Chinn Lee Siddens	Junction	2,292				
4 5	Wm. M. Strong Sisk, Flanders & White	Shawneetown Equality	800				
6	Jones & Marten	Junction, R. F. D. No. 1	420			 	
7	Elliott Bros	do	150				
9	James T. Colbert Spitzner & James	do	21				
	Total		9,221			 9,221	
	Total—11 mines		125,366	111,265	1,208	 9,893	3,000

### ELEVENTH DISTRICT, 1917.

d for	bie ex-	tie	spec- ons	ation.		Tons	mined.	number		.cci- ents.	in use.	under-		other s	shers or special g plant.	
Kegs of powder used for blasting.	Pounds of permissible explosive used.	Pounds of permiss plosive used.  State inspector  County inspector.		Days of active operation.	Total employees.	By hand.	By machine	Mining machines—in use.	Killed.	Injured.	Number of motors	Number of animals under- ground.	Number in use.	Average daily capacity.	Tons prepared during the year.	Number.
9,046	148,450 175,725 16,838 195,725 117,525 89,250 104,675 95,475 80,050 94,175 92,425 61,875	3 2 1 3 2 4 2 6 2 5 4 5 2	1	272 203 233 254 261 252 241 209 236 195 259 239 251	779 969 889 669 785 559 504 473 575 650 549 323 320 264	27,046 66,439 133,340 50,900	589,822 641,427 624,714 422,165 458,424 440,864 344,116 327,151 296,053	35 31 19 35 28 31 21 20 31 18 16 19 19 20 10	3 1 2 3 1 2 3 1 1	23 16 22 28 10 21 14 6 15 19 30 9 17 12	16 22 20 19 17 17 17 17 13 4 9 13 4 2 3	1  1 1 2 11 7 25 22 21	1 1 1 1 1	1,700 2,000 2,500 1,000	256,560 237,378	9 10 11 12 13 14 15
2,011 3,395 2,487 1,439 18,378	1,590 44,200 46,625 1,585,393	5 1 3		176 193 217 196 184 190	340 217 243 366 98 120 10,511	22,222 64,439 364,386	269,641 244,955 207,639 206,636 45,033 10,953,271	14 21 12 14 2 416		5 3 4 5	10 3 2 1 3 1 	27 12 18 18 7 4 179	i	250		16 17 18 19 20 21

# ELEVENTH DISTRICT, 1917.

	1									I		1		1.	1
793		1		259	71		62,829	3		···		12			
0,197				100	30	30,310			-:			- 0			
3,990		3		223	164	53,316	62,829	3		7		18			
									-			_			
50				139	8										
140 43				142	7	2,292 915									
20				130	4 3										
35				100	2	. 700									
00				200	_	****									
20				81	2 2 2	420									
10				50	2	150									
2				37	2	40			• •						
4				37	1	21			• •						
324				92	31	9,221									
4 014			=	110	105	40 505	00.000	=	=	==	-	==	-		
4,314		3		116	195	62,537	62,829	3		7		18			

=						OILLI1.	NE CO	UNII,
					Disposi	tion of o	ıtput.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Fons sold to rail- road companies and loaded on ears.	Tons sold to local trade.	Tons consumed or wasted at the mine.
***	SHIPPING MINES.					-		
11 12 13 14 15 16	J. Dering Coal Co., No. 3 O'Gara Coal Co., No. 1	Harrisburgdo Wasson Harrisburg Lidoradodo do Harrisburg do do Carriers Mills. Harrisburg do do Carriers Mils. Harrisburg do do Gariado Carriers Gariado Gariado Gariado Gariado Gariado Gariado Gariado Gariado Gariado	494,528 458,934 384,555 318,543 341,344 316,731 255,623 235,151 222,865 194,932 176,351 171,576 160,381 143,390 54,385 40,396	357,197 338,917 322,933 335,515 308,926 171,125 107,117 216,877 189,305 148,376		27,575	689 2,966 600 12,692 197 1,073 1,438 424 400 594 10,493 213 1,331 968 8,254	7,720 9,433 5,008 9,626 6,055 5,829 7,608 8,425 5,596 5,564 5,627 
	LOCAL MINES.		1,400,004	4,004,525	4,058	251,401	42,552	102,018
5 6 7 8 9 10 11 12 13 14 15 16 17 18	Jess Allen. W J. Fife. Job Ingram. Henry Biggs. S. J. Moore. R. L. Clemments. Thomas Osborn. Job Reynolds. Learner Sylventer Sylventer Louis Dumer James Yates G. H. Dorris. Davis & Hanald Pat Ross. John Yates. Willis Henson. J. F. Colbert.	Carriers Mills. Dorrisville. Carriers Mills. Carriers Mills. Carriers Mills. Carriers Mills. Harrisburg Stonefort. Equality. Mitchelville. Equality. do Eagle. Stonefort. Eagle. Stonefort. Equality. Harrisburg Carriers Mills. Equality. Harrisburg. Equality. Harrisburg. Stonefort. Equality. Harrisburg. Stonefort. Stonefort.	2,500 2,500 1,150 925 800 700 650 598 480 375 275 248 160				16,350 3,175 3,126 2,500 2,500 2,500 1,135 925 800 600 598 480 363 275 248 160 150 100 70 42 20	200 225 50 15 50 50 12
	Total—39 mines			4,054,925	4,698	291,461	76,599	

Mines in 1916, 39. New mines, 2. Abandoned mines, 2. Mines in 1917, 39.

WHITE COUNTY,

SHIPPING MINES.							
1 White County M. & P. Co	Norris City	105,645	51,394	3,196	40,215	7,644	3,196

### ELEVENTH DISTRICT, 1917.

1 For	ole ex-	Ins tic by	ms	tion.		Tons	mined.	number	A	cci- nts.	in use.	under-		other s	shers or pecial g plant.
Kegs of powder used for blasting.	Pounds of permissible explosives used.	State inspector.	County inspector.	Days of active operation	Total employees.	By hand.	By machine.	Mining machines—number in use.	Killed.	Injured.	Number of motors in use.	Number of animals under- ground.	Number in use.	Average daily capicity.	Tons prepared during the year.
3,909 3,888 3,818 3,450 1,115 3,498 3,352 2,276	65,000 37,200	1 1 2 3	2 2 1 1 1 1 1 2 2	196 206 194 239 259 207 189 188 243	458 402 401 301 265 314 336 293 210	22,024	494,528 458,934 384,555 348,543 341,680 319,320 316,731 239,389 235,151	15 18 17 16 16 16 16 16 10	1	9 5 3 7 5 6 9	13 3 5 2 3 3 3 3 3	6 47 26 37 32 29 27 30 16			
2,690 2,350 3,672		2 1 1	····	183 222 209	253 204 223		222,865 194,932 176,351	10 14 9	2	7 4 5	2 3 6	29 22			
$^{1,890}_{1,252}_{1,250}$		1 2 1		199 188 169	192 167 218		171,576 160,381 154,669	13 8 11		3 4 3	2 1 2	24 17 24			
1,249 $564$ $1,950$		1 3 3	i	155 159 185	183 253 72	40,395	143,390 54,385	6		5 4 1		22 21 8			
11,983	102,200	26 ==	15	199	4,745	78,654	4,417,380	214	18	85	53	417			
690 355 290 75 150 40 35 35 15 30 20 9 7 7 50 6 3 3 5 15 4 20 9 7 5 4 4 9 7 5 1 5 4 9 9 9 7 5 1 5 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		250 155 300 100 80 85 85 85 90 40 90 100 50 50 20 25 90 20 15 5	122 7 8 8 5 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	16,550 3,305 3,176 2,500 2,500 1,159 925 8000 700 6598 480 3755 275 2480 150 100 700 42 20		1							
1,333		5		82	72	34,774	95	1							

ELEVENTH	DISTRICT,	1917.
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770	 1.	211	95	 105,645	3	5	15	 	1

#### SHIPPING MINES, RECAPITULATION BY

					Dispos	ition of ou	tput.		d for	ble ex-
Number.	Counties.	Number of mines.	Total output.	Tons loaded on cars for ship-ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Sold to local trade.	Consumed or wasted at the mine.	Kegs of powder used blasting.	Pounds of permissible ex- plosives used.
2	Franklin Gallatin Saline White	21 18 1	11,317,657 116,145 4,496,034 105,645	111,265 4,054,925	1,091 1,208 4,698 3,196	991,643 291,461 40,215	672 42,332	346,699 3,000 102,618 3,196	3,990 41,983	
	Total	42	16,035,481	14,125,535	10,193	1,323,319	120,921	455,513	65,121	1,687,59

#### LOCAL MINES, RECAPITULATION BY

1 2	Gallatin Saline	9 21	9,221 34,869	,			9,221 34,267	602	324 1,333	
	Total	30	44,090				43,488	602	1,657	
	The district	72	16,079,571	14,125,535	10,193	1,323,319	164,409	456,115	66,778	1,687,593

#### ALL MINES, RECAPITULATION BY

=										
2	Franslin Gallatin Saline White	11 39	125,366	111,265 4,054,925	1,208 4,698	291,461	9,893 76,599	3,000	4,314 43,316	1,585,393 102,200
	Total	72	16,079,571	14,125,535	10,193	1,323,319	164,409	456,115	66,778	1,687,593

Whole number of mines reported for 1916, 70. Number of new and reopened mines during the year, 8. Number of mines abandoned during the year, 6. Whole number of mines reported for 1917, 72.

### COUNTIES, ELEVENTH DISTRICT, 1917.

Days of active operation.	Total employees.	By hand.	By machine.	Number of machines.	Xecio Yesio	lents.	Number of motors.	Animals underground.		washers cial preparation washers capacity.	aring	Number.
223 199 211	4,745	53,316 78,654	10,953,271 62,829 4,417,380 105,645 15,539,125	416 3 214 3 636	37 18 55	277 7 85 5 374	196 53 249	179 18 417 15 629	8	2,531	2,514,565	1 2 3 4

# COUNTIES, ELEVENTH DISTRICT, 1917.

92 82	31 72	9,221 34,774	95	·····i					
85	103	43,995	95	1				 	 
161	15,618	540,351	15,539,220	637	55	374	249	 	 

### COUNTIES, ELEVENTII DISTRICT, 1917.

227 10,511 116 195	62,537				277	196	18	 	 1 2
136 4,817 211 95	113,428	4,417,475 105,645		18	S5 5		417 15	 	 4
161 15,618	540,351	15,539,220	637	55	374	249	629	 	

# TWELFTH INSPECTION DISTRICT.

COUNTIES-JOHNSON AND WILLIAMSON. HENRY BANNISTER, Inspector.

Hon. Evan D. John, Director, Department of Mines and Minerals, Springfield.

SIR: I have the honor to submit to you the annual report of this, the Twelfth District, comprising the coal producing counties of Johnson and Williamson.

### SUMMARY OF THE ITEMS IN THE REPORT.

Number of counties producing coal	2
Number of shipping mines	35
Number of local mines	12
Number of new or reopened mines	10
Number of closed or abandoned mines	8
Number of men underground	8,048
Number of boys underground	209
Number of men outside the mine	1.034
Number of boys outside the mine	15
Total number of employees	9,306
Total tons of coal produced9,	684,125
Days of active operation, all mines	188
	253,355
Number of fatal accidents	34
Number of nonfatal accidents	130
Number of employees to each fatal accident	274
Number of employees to each nonfatal accident	72
Tons of coal produced to each fatal accident	248,827
Tons of coal produced to each nonfatal accident	74,493
Ratio of fatal accidents per 1,000 employees	3.65
The following table gives, by counties, the output, the days work	ed and

The following table gives, by counties, the output, the days worked and the number of men employed, 1917 and 1916, with the increase or decrease in each:

	1	917		1	916		Incre	ase.		De	ecrea	se.
County.	Output- tons.	Days worked.	Men em- ployed.	Output- tons.	Days worked.	Men em- ployed.	Tons.	Days.	Men.	Tons.	Days.	Men.
Johnson	17,823 9,666,302	136 191	12 9,294	1,981 7,904,528	127 181	8,571	15,842 1,761,774	10	723			
Total and average Net	9,684,125	188	9,306	7,906,509	177	8,582	1,777,616	··ii	724			

#### NEW AND REOPENED MINES.

A. S. Hindley, Creal Springs; A. J. Dougherty, New Burnside; Taylor Mining Co., No. 3 mine, Herrin; Federal Coal Co., No. 25 mine, Thomas E. Lewis, Carterville; Johnston City Washed Coal Co., Whiteash; Marion & Pittsburg Coal Co., Pittsburg; Henderson & Wallace, Lewis Coal Co., C. M. Bridis, Marion.

#### Closed and Abandoned Mines.

A. C. Goddard, T. M. McMichael, New Burnside; H. P. Crain, Mat Ghent, Carterville: A. Motsinger, Charles Motsinger, Crab Orchard; Peabody Coal Co., mine No. 2, M. T. Bateman, Herrin.

#### CHANGE OF NAME.

Watson & Ward to P. M. Ward; Cambria Coal Co. to Ernest Coal Co.; Carterville & Herrin Coal Co. to Pratt Bros.; J. S. McNeil to E. Lewis Coal Co.; St. Louis & Carterville Coal Co. to Duncan Coal Co.; Sunnyside Coal Co. to T. G. Warden Coal Co.; Waldron & Brayfield to W. J. John; Watson Coal Co. mine No. 2 to Ridge Coal Co.

#### IMPROVEMENTS.

The Marion & Pittsburg Coal Company's mine, which had been closed for some time, has been reopened, and the plant is being remodeled and rearranged, and when completed, a 3,000-ton per day plant will have been installed. Two 150 horsepower boilers have been added to the two already installed and a second 150 kilowatt generator and engine are in the course of installation. A blacksmith shop, carpenter shop, supply house and wash house have been erected of concrete and corrugated iron. Load and empty yards have been graded and tracks installed to handle the increasing output of the mine. Track scale has been installed with beam operating inside the mine office building, which building has been moved and additions made. Railroad switches deliver material direct to supply houses and timber yard and tracks have been arranged to give the greatest efficiency in the handling of coal and material and supplies. Inside, the roadways have been cleaned and the tracks relaid with 35-pound steel, and development of the mine is being carried on as rapidly as possible. The manner of working has been changed to the panel system and panels are 520 feet by 1,320 feet. Rooms are to be 250 feet long, driven 24 feet wide on 40-foot centers.

The property of the Cambria Coal Company of Johnston City, Illinois, was purchased from the referee in bankruptcy by the Ernest Coal Co. and the latter company has, during the past year, erected a thoroughly modern plant. The shafts had been sunk for about ten years on the property, but only about 500 feet of entry driven by the old company. A connection was secured with the C., B. & Q. R. R. Co., and the new plant was put into operation in September, 1916. Steam is furnished by a battery of two 150 horsepower boilers for hoisting and operating the fan, and power is purchased from the C., I., P., S. Co., for the electrical requirements. Two motor generator sets of 100 kilowatt and 200 kilowatt capacity, respectively, have been installed, together with complete switchboard equipment for operating the sets independently or in parallel, as well as transformers to provide 220 volt a. c. power for operating the shop and tipple motors, as well as pumping inside the mine and lighting top and bottom. The power house is of brick construction and the shop, wash house and other buildings are of corrugated iron. The tipple is a modern 5-track installation and equipped to prepare coal in the best possible manner. The shaker screen is 8 feet wide and arranged to size coal into 6-inch lump, 3- by 6-inch egg, 12- by 3-inch nut, 11/4- by 2-inch nut, 11/4- by 2-inch screenings and mine run, or any combination of the above sizes. Degradation screens are provided to rescreen coal before it is loaded.

The mine has been developed on the panel system, the main entries being driven north and south with cross entries east and west and rooms are all driven east and west from north and south stub entries. All coal is mined with machines and while some mules are used for gathering, most of the hauling is done by four 6-ton gathering locomotives, all of which deliver loads to shaft bottom, and four separate roadways are maintained for empty trips to get away. The coal averages ten feet in thickness and two feet is left for roof protection in entries and rooms, but recovered in the rooms on retreat together with the pillars.

The Big Muddy Fuel Company, N. V. Johnston City, has installed one

new fan, twenty new pit cars and two new cages,

Federal Coal Company's mine No. 25, known as Burr C, at Carterville, has installed electric haulage, one 200 kilowatt motor generator set, four electric pumps, an electric lighting system, made run-a-round on bottom to switch empty coal cars, renewed all buildings with corrugated iron, bought 100 new 3-ton pit cars, painted all top buildings, retimbered mine at bottom of shaft, put in new rails and retimbered old tracks on bottom, and made a general overhauling of all top and bottom works.

#### FATAL ACCIDENTS.

July 25, 1916, Mike Kashu, miner, age 46 years ,single, was killed by falling slate while pulling pillars, in Searls Coal Company's mine, Johnston City, Williamson County.

August 28, 1916, Robert Meadows, carpenter, age 38 years, married, was killed by the bursting of a compressed air pipe in Big Muddy Coal and Iron Company's No. 8 mine, Clifford, Williamson County. He leaves a widow and one child.

September 30, 1916, Pasquala Reggio, miner, age 38 years, married, was killed in Johnston City Coal Company's mine, Johnston City, Williamson County, by being caught between motor and coal rib. He leaves a widow and three children.

October 8, 1916, George Benedict, driver, age 26 years, married, employed in Taylor Mining Company's mine, No. 1, Herrin, Williamson County, was caught between two loaded pit cars which he was trying to couple, and killed. He leaves a widow and two children.

October 20, 1916, Otto Woodard, top boss, age 27 years, married, was killed by being caught between a car and the cage while trying to put the car on the cage from the hopper at the mine of the Johnston City Coal Company, Johnston City, Williamson County. He leaves a widow and four children.

November 2, 1916, William Keller, miner, age 44 years, married, was struck by a runaway car and killed in Chicago, Big Muddy Coal and Coke Company's mine, Marion, Williamson County. He leaves a widow and one child.

November 23, 1916, George W. Davis, trip rider, age 27 years, married, was killed by being run over by pit cars in Johnston City Coal Company's mine, Johnston City, Williamson County. He leaves a widow and two children.

December 20, 1916, Otto Holestein, driver, age 20 years, single, was run over and killed by a pit car in the mine of Searls Coal Company, Johnston

City, Williamson County.

December 28, 1916, Leo Murphy, driver, age 20 years, single, was killed in Pond Creek Coal Company's mine, Herrin, Williamson County, by being caught between a car and the coal rib while trying to get on the car.

January 4, 1917, Arlie Crain, laborer, age 25 years, married, employed at the No. 2 mine of the Taylor Mining Company, Herrin, Williamson County, was run over and killed by a railroad car. He leaves a widow and one child.

January 5, 1917, John Siko, miner, age 16 years, single, was killed by falling coal in Williamson County Coal Company's mine, Johnston City,

Williamson County.

January 15, 1917, Ennis A. Meyers, driver, age 27 years, married, was killed in Big Muddy Coal and Iron Company's No. 7 mine, Herrin, Williamson County, by a fall of slate.

February 7, 1917, Evert Lacy, pipeman, age 38 years, married, was run over and killed by pit cars, in Pond Creek Coal Company's mine, Herrin,

Williamson County. He leaves a widow and one child.

February 16, 1917, Tom Barlow, coupler, age 16 years, single, was killed by pit cars in Williamson County Coal Company's mine, Johnston City, Williamson County.

February 28, 1917, Albert Friar, machine helper, age 37 years, single, was killed by falling coal in W. P. Rend Coal and Coke Company's mine

No. 2, Herrin, Williamson County.

March 15, 1917, Arthur Paul, motorman, age 30 years, married, came to his death by being caught between his motor and empty pit cars in Williamson County Coal Company's mine, Johnston City, Williamson County. He

leaves a widow.

March 18, 1917, S. J. Berhar, timberman, age 42 years, married, was electrocuted in Johnston City Coal Company's mine, Johnston City, Williamson County. Deceased was unloading ties from a mine car; he had one foot on the car wheel and the other one on a pile of iron rails; in some way he struck his head against an electric wire. He leaves a widow and five children.

April 10, 1917, James Teague, loader, age 51 years, married, was killed by falling coal in Sunnyside Coal Company's mine, Herrin, Williamson County. He leaves a widow and eight children, four of whom are dependent.

May 5, 1917, John Denistre, miner, age 66 years, married, was killed by pit cars in Chicago and Carterville Coal Company's mine "B," Herrin,

Williamson County. He leaves a widow.

May 29, 1917, James R. Kirk, shot firer, age 42 years, married, was killed by a shot explosion in Federal Coal Company's No. 25 mine, Carter-

ville, Williamson County. He leaves a widow and three children.

June 2, 1917, an explosion of gas occurred in the W. P. Rend Coal & Coke Company's mine, Herrin, Williamson County, in which nine men lost their lives. Their names are as follows: Charles Rice, age 38 years, laborer, married, leaves widow and five children; Ezra Adams, age 38 years, laborer, married, leaves a widow; Guy Vickery, age 25 years, laborer, single; Amos Mezo, age 35 years, laborer, married, leaves a widow and three children; Otis Reynolds, age 20 years, laborer, single; Ira Sanders, age 35 years, night boss, married, leaves a widow; J. S. Good, age 32 years, laborer, married, leaves a widow; John Gassage, age 30 years, laborer, single; and Roy Weathere, age 19 years, laborer, single.

June 5, 1917, Caleb Oliver, trip rider, age 20 years, single, was killed by pit cars in Searls Coal Company's mine, Johnston City, Williamson

County.

June 7, 1917, Finis Hodge, laborer, age 35 years, was caught between two cars and killed in Peabody Coal Company's No. 3 mine, Marion, Williamson County.

Respectfully submitted.

H. T. Bannister. Inspector, Herrin, Illinois.

# FATAL CASUALTIES, TWELFTH DISTRICT, JUNE 30, 1917.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
Aug. 28 Sept. 20 Oct. 8 Oct. 20 Nov. 2 Dec. 8 8 8 20 1917 Jan. 4 15 Feb. 15 Feb. 15 10 May. 5 June 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Mike Kashu. Robert Meadows. Pasquala Regglo. George Benedict. William Keller George Weller William Keller George W. Davis. Cipolo Karus. Floyd Adamson. Samuel Long. Otto Holestein Leo. Murphy. Arlie Crain John Siko. Emnis A. Meyers. Ever Lacy. Albert Friar Arthur Paul. S. J. Berhar James Teague John Denistre James R. Kirk Charles Rice Ezra Adams. Guy Vickery Amos Mezo. Otis Reynolds. Ira Sanders. J. S. Good. Ira Sanders. J. S. Good. Roy Weller Loy William Sames Mezo. Loy Loy William Sames Mezo. Loy Loy Loy Loy Loy Loy Loy Loy Loy Loy	38 38 26 27 44 20 20 25 16 27 38 16 42 51 66 42 38 38 25 30 30 30 30 30 30 30 30 30 30	Carpenter Miner Driver Foreman Miner Trip rider Laborer do do Driver do Laborer Miner Miner Driver Laborer Miner Miner Driver Laborer Miner Machine helper M	Herrin Johnston City Herrin Johnston City Marion Johnston City Johnston City Johnston City Johnston City Herrin Johnston City Herrin Johnston City Herrin Johnston City Saginaw, Mich Johnston City Carterville Herrin Johnston City Johnston Ci	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	······································	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 3 2 4 4 1 2 5 1 2	2 4 3 5 2 3 6 2 3 · · · 2 · · · 6 2 · · · · 1 6 5 1 4 6 6 1 · · · 4 · · · · 1 5	Railroad car. Falling slate. Falling slate. Filling slate. Filling slate. Filling slate. Filling coal. Motor. Electrocuted. Falling coal. Pit car. Shot explosion. Gas explosion. Gas explosion. Gas explosion. Gas explosion. Gas explosion. Gas explosion. Gas explosion. Gas explosion. Gas explosion. Gas explosion. Gas explosion. Gas explosion. Gas explosion. Filling Gas explosion. Gas explosion. Gas explosion. Filling Gas explosion. Filling Gas explosion. Filling Gas explosion. Filling Gas explosion. Filling Gas explosion. Filling Gas explosion. Filling Gas explosion. Filling Gas explosion. Filling Gas explosion. Filling Gas explosion. Filling Gas explosion.
	1.0001				20	**	-0	00	, 3	

# RECAPITULATION OF FATAL ACCIDENTS, TWELFTH DISTRICT, 1917.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Carterville	17 13 2	Carpenter Coupler Drivers Foremen Laborers Loader Machine helper Motorman Shot firer Trip riders	14 1 1 1 5	Asphyxiated Bursting pipe Electrocuted Falling coal Falling state Gas explosion Motor Pit ear Railroad ear Shot explosion	1 2 3 9 2	Big Muddy C. & I. Co. Chicago-Big, M. C. Co. Chicago-Carter. C. Co Federal Coal Co. Johnston City Coal Co. Pendody Coal Co. Pond Creek Coal Co. W. P. Rend Col. Co. Searls Coal Co. Taylor Mining Co. T. G. Warden Coal Co.	1 1 7 1 2 10 3 2
Total	34		34		34		34

# NONFATAL CASUALTIES, TWELFTH DISTRICT, JUNE 30, 1917.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents	Character of injury and cause of accident.	Time lost-
4043		-			1				
1916 July	Homer Brown	23	Herrin		1			Finger injured, not stated. Leg injured, pit car Legs injured, pit car Legs injured, pit car Arm injured, fell off car Legs injured, pit car Arm broken, alling slate Foot injured pit car Head injured, falling slate. Body injured, pushing car Hand injured, coal falling down shaft.	3.
5	Wm. Hull	38	Johnston City	1		5	- 6	Leg injured, pit car	16
10	Raymond Ennis	17	Horrin		1			Arm injured fell of car	37
13	Robert Briscoe	14	Johnston City	II.	Î			Legs injured, pit car	3
14	Harry Jarvis	38	Herrin	1			1	Arm broken, falling slate	
15	James Bolar	140	Colp	1		5	4 9	Arminiured pit ear	31
Ang. S	Frank De Boni		Johnston City	1			1	Head injured, falling slate	3
14	Thos. Versales	39	Colp		1			Body injured, pushing car	5
25	Ben Viagina	40	Herrin	1			1	Arm indired, poit car. Arm broken, falling slate. Foot injured pit car. Arm injured, pit car. Head injured, falling slate. Body injured, pushing car. Hand i injured, coal falling down shaft.	3
26	George Oldonia Troy Laue. C. W. Winegardner. Chas. Carnaghi George Hanks Henry Guder Peter Pastumich. Frank Jochovitz John Skieney. Chas. Howser Sam Allen. Henry Gibson Fred Ames K. Donatt. K. Donatt. George Puller Dan Holley B. H. Hughes Dause Cundiif Andy Stolan Richard Gum. Elmore Spears. W. M. Wyatt William Yarmon. O. Sine	35	do	1	١	2	3	Handiniured falling coal	3
28	Troy Lane	21	do		1			Rib broken, pit ear Body injured, not stated Head injured, falling coal Body injured, bursting pipe	3
28 Sept. 7	Chas Carnaghi	45	Horrin	1		2	3	Head injured, falling coal	3 4
sept. 1	George Hanks	27	Clifford	î		2	3	Body injured, bursting pipe	3
16	Henry Guder	34	Marion	1	١		1	Leg injured, fell off car. Leg broken, falling slate Body injured, falling coal Collar bone broken, motor	7 9
18	Peter Pastumtch	16	Johnston City	1		3	3	Rody injured falling state	4
26	John Sklenev	36	Clifford	î		7	8	Collar bone broken, motor	4
27	Chas, Howser	33	Johnston City	1		2	3		
30 Det 5	Sam Allen	90	Horrin	1	1:	4	5	Foot injured, cage Leg broken, pit ear Body injured, falling slate	3
Jet. a	Fred Ames	45	do	i	1.		1	Body injured, falling slate	3
8	K. Donatt	19	Johnston City		1		2	Hand broken, pit ear	1 0
10	John Strobaugh	0.1	do		1			Leg injured, fell off car	4
18	Dan Holley	37	Dewmaine		1			Collar bone broken, pit car	. 3
20	R. H. Hughes	33	Marion	1		1	2	Eye injured, flying coal Arm broken, flying steel Hand injured, falling coal	5
23	Dause Cundiff	38	Cambria	1	- :		1	Hand injured, falling coal	3
21	Richard Gum	18	Herrin		1			Body injured, pit ears	5
27	Elmore Spears	33	Dewmaine		1			Body injured, pit car.  Eye injured, flying coal.  Leg injured, falling coal.  Leg injured, not stated.	9
27	W. M. Wyatt	28	Herrin	1		2	3	Leg injured, falling coal	3
28	O Sine	31	Johnston City	1	1	<u>-</u>		Foot injured, machine	4
30	Henry Gollman	50	Herrin	1.	1			Foot injured, not stated	4
31	Ray Crowell	20	do	1		2	3	Hand injured falling coal	- 3
10	Ustel Bullock	30	do	1			1 4	Leg broken, pit ear. Foot injured, falling slate. Leg injured, falling slate.	6
10	Guy Newbold	26	do	1		1	2	Leg injured, falling slate	3
14	Leonard Stanton	24	do		1			Rib broken, falling slate Leg injured, falling coal	4
14	Chriss Cherry	32	Dewmaine		1			Leg injured, falling coal	6
20	Frank Winters	21	do		1			Back injured, fell. Hand injured, hand saw	3
20	Pete Bolland	40	do	1		3	4	Hands burned, gas explosion	-9
21	Alfred Walker	25	Herrin	1	1	6		Arm broken, caught in wheel Wrist broken, pit car	3
26	Frank Foodrich	39	do	1	1::	2	3	Finger injured, rail	
27	Jacko Derardo	25	Clifford		1			Finger injured, rail	6
28	Delmar Burgess	25	Johnston City	1		1	1	Body injured, pit car Body injured, falling slate	3
Dee. 9	Thos. Pickering	1	do	1.1	1			Body injured, pit car Leg broken, falling coal Leg broken, falling slate	3
21	W. J. Ramsey	45	Whiteash	1		3	1	Leg broken, falling coal	9
22	Nick Perino	39	Johnston City	1	1.	3	1	Finger broken, falling slate	12
27	Cale Martin	67	do	1	ī			Leginjured, falling coal	3
29	Frank McNeill	58	Herrin		1			Head injured, falling coal	4
28	Toney Savoeo	25	Whiteash	1		3	-1	Finger broken, falling slate Leg injured, falling coal.	6
1917	Elmore Spears W. M. Wyatt William Varmon. O. Sine. Henry Gollman Ray Crowell. Ostel Billock Lawrence Bateman Guy Newbold Guy N		Johnston City.	1	1		1	neg injured, faming coar	
an. 6	Robert Barnett H. C. Sadberry Wm. Stephens Joe Rakiska John Tapella Frank Boalby Homer Garris John Cross Wayne Carr Alvin Stewart	27	Colp		1	١		Body injured, falling coal	3
6	H. C. Sadberry	50	do	1		12	13	Body injured, pit ear	15 15
6	Joe Rakiska	49	do	1	1		1	Shoulder injured, fell	12
7	John Tapella	40	do	1			1	Finger injured, pick. Body injured, falling slate	1 4
8	Frank Boalby	47	do	1		2	1	Body injured, falling slate	5
10	John Cross	154	Energy	i	1		· · · · i	Collar bone broken, pit ear Foot broken, falling coal	6
12	Wayne Carr	20	Colp		1			Body injured, kicked by mule	3
								Foot injured, motor	1 6

# NONFATAL CASUALTIES, TWELFTH DISTRICT, JUNE 30, 1917—concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependent	Character of injury and cause of accident.	Time lost—
1917				1.					
an. 23	T. J. Osbourn Clyde Parker John Machys Chas. Rosman L. Brevi J. F. Chumness R. H. Collins Pete Lapposa L. A. Chiodinia Clyde Miles	28	Herrin	1			1	Wrist injured, falling coal Arm broken, falling slate	18
31	John Machys	31	Dewmaine		i		1	Body injured, falling coal	10
eb. 1	Chas. Rosman	35	Colp		î	2		do	- 3
2	L. Brevi	32	Johnston City	1			1	Back injured, pushing car. Foot broken, falling state	- 3
4	J. F. Chumness	32	Energy	1	٠.	3	4	Foot broken, falling slate	1
7	Pete Lannes	27	do	1	1	2		Body burned, shot explosion Leg injured, motor	
10	L. A. Chiodinia	44	do	i		2	3	Eye injured, flying coal Leg broken, falling slate Leg injured, fell off car	
12	L. A. Chiodinia Clyde Milles Thos. Lane Marion Kirk Louis Calcaterra John Patsavich Chas. Childers Eugene Vincent Joe Carnaghi John Metcalf Julius Virginia Nick Ludoff John Hardin Chas. Underwood Steve Kish Leon Suan Clyde Parker Thom Studon George Yonchunans James Bishears Walter Snoddy C. McClellan Otis Reynolds Eli Brackett Chas. Woodline Spence Yates John Zerostanus Martin Albin Lee Lamb George Beek	26	do	î		2	3	Leg broken, falling slate	1
13	Thos. Lane	55	do	1		6	7	Leg injured, fell off car	
13	Marion Kirk	30	do	1			1	Body injured, falling coal Leg injured, falling slate Leg broken, falling slate	
17	Louis Calcaterra	53	Whiteark	1		6	7	Leg injured, falling state	
10	Chas Childers	30	Herrin	1	i	4	1	Leg injured, pit car	1
20	Eugene Vincent	23	do	1::	î			Finger injured, sprag	•
21	Joe Carnaghi	32	do	l	1			Finger injured, sprag E yeinjured, flying coal Foot injured, falling coal	
21	John Metcalf	40	Johnston City	1		1	2	Foot injured, falling coal	
24	Julius Virginia	50	Herrin	1	-:		1	Body injured, falling rock	
ar. 1	John Hardin	25	Colp	1	1		····i	Rib broken, pit carLeg broken falling coal	
11. 1	Chas, Underwood	41	Clifford	1	•••		i	Head injured, trolley wire	
3	Steve Kish	37	Johnston City	lî		5	6	Ribs broken, pit car	
6	Leon Suan	25	Marion	1		1	2	Head injured, trolley wire.  Ribs broken, pit car  Arm injured, falling coal	
7	Clyde Parker	26	Colp	1	٠.		1	Arm broken, pit car	
16	Anton Addie	33	Herrin	1	٠:		1	Back injured, lifting car	
17	Coorgo Voughungus	٠.	Lohnston City		1			Leg injured, falling prop.	
. 20	Iames Richests	33	Herrin	1	1		3	Leg broken, falling slate	1
24	Walter Snoddy	32	do		1			Back injured, falling slate	-
27	C. McClellan	16	Clifford		1			Leg broken, pit car	
28	Otis Reynolds	20	Herrin		1			Leg broken, pit car Foot injured, pit car Fingers cut off, saw	
31	Eli. Brackett	35	Whiteash	1		4	5	Fingers cut off, saw	
or. 3	Chas. Woodline	41	Uambria	1			1	Back injured, falling slate	
3	John Zerostanus	20	Johnston City	1	i	- 4	0	Body injured, gas explosion Head injured, falling slate	
4	Martin Albin		do	i			1	Body burned gas explosion	
16	George Beck Chas. Lapinski Chas. Lapinski John Harris Arthur Sturm Ed Jacobs		do	1			1		1
17	George Beck	29	W. Frankfort		1		2	Body injured, falling coal	
18	Chas. Lapinski		Johnston City	1	- ;		1	Arm broken, pit car. Body injured, falling slate.	
19	Lohn Horris	23	Marion	1	1		i	Rody injured falling slate	
23	Arthur Sturm	27	Pittsburg	1	i		1	Body injured, pit car	
23	Ed. Jacobs	34	Herrin		1			Finger injured, sprag	
24	John Durham	45	do	1			1	Body injured, pit car	
30	Walter Murry	20	do	-:	1			Finger injured, sprag	
39	Joseph Khoads	49	Ruch	1		2	2	Collar bone broken, pit car	
y 1	G Darrington	35	do.	1	i	3	4	Body injured, falling coal Arm injured, gear of pump. Head injured, falling coal	
3	I. O. Taylor	90	Herrin	l i	1	3	4	Head injured, falling coal	
4	Amalia Garavalia	40	do	1			1	Leg injured, falling coal	
9	Wm. Bowman	35	do	1			1	Finger injured, pit car	
10	C. Kierutis	43	do	1		6	7	Collar bone broken, shot explosion	
23	Sam Foster	39	do	1			1	Body injured, falling prop Arm broken, coal fell down shaft.	
ne 2	W A Brewer	28	Herrin	1	i i		1	Body injured, gas explosion	
2	Thos. Cox	36	do	i	. 1	2	3	Body burned, gas explosion.	
12	Chas. Manzy	29	do		1			Finger injured, falling timber	
12	J. Sala	20	Johnston City.		1			Body burned, gas explosion Finger injured, falling timber Body injured, falling coal	
19	Arthur Sturm Ed. Jacobs. John Durham Walter Murry. Joseph Rhoads Joh Romeo. G. Darrington J. O. Taylor. Amalia Garavalia Wm. Bowman C. Kierntis. Joe Chasnek W. A. Brewer Thos. Cox. Chas. Manzy J. Sala. J. Varo	38	do		1			Leg broken, falling coal	
	Total			77	52	146	222		
	Total			"	00	140	222		
		_		_	_		_		=

RECAPITULATION OF NONFATAL ACCIDENTS, TWELFTH DISTRICT, 1917.

Cambril   2   Carpenters   2   Caught by objects   4   Big Muddy Fuel Co.	Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No
Williamson Co. C. Co	Cambria Carterville Clifford Colp Dewmaine Energy Herrin Johnston City Marion Pittsburg W. Frankfort	2 3 6 8 5 2 61 29	Carpenters Coupler Drivers Foremen Laborers Laborers Machinist Machinist Machine runner Motorman Shot firers Spragger Timbermen Trackmen Trackmen	29 29 21 11 4 1 5 49 1 2 1 3 3 1	Caught by objects. Falling coal Falling rock Falling state Falling slate Fell Falling slate Fell Guide Salling Flying coal Guide Saylosion Motor Mule Fli cars Pushing car Falling sall Railroad car Shot explosion Struck by objects Struck by objects	28 1 21 6 4 5 1 1 3 1 3 2 1 2 1 3 1 2 1 3 1 3 1 3 1 3	Big Muddy Fuel Co. carterville & B. Muddy Coal Co. ChiCarterville C. Co. Consolidated Coal Co. Ernest Coal Co. Johnston City Coal Co. Johnston C. W. C. Co. Madison Coal Corp. Marion-Pittsburg C. Co. Peabody Coal Co. Pond Creek Coal Co. W. P. Rend Coal Co. Seranton & B. M. C. Co. Serals Coal Co. Taylor Mining Co. F. G. Warden Coal Co. Western C. & M. Co.	1 1 1

RECAPITULATION OF NONFATAL ACCIDENTS, NATURE OF INJURIES, CONJUGAL RELATIONS, AND TIME LOST, TWELFTH DISTRICT, 1917.

Nature of injuries.	Number.	Married.	Single.	Children.	Dependents.	Time los	t—days.	Percentage of injuries.
Ankle broken¹ Arm broken¹ Arm broken² Arm injured Back injured Body burned¹ Body burned¹ Body injured¹ Collar bone broken Eye injured Finger broken Finger cut off Finger broken Finger broken Foot broken Foot broken Hand broken Hand injured Head injured Head injured Leg cut off Leg injured Leg to for the state of the	17 44 55 32 27 54 42 22 88 22 91 66 66 11 11 18 41 12	5 24 43 15 3 1 1 1 2 2 3 2 6 6 5 4 8 1 8 1 1 2 2	1 2 2 1 12 2 3 1 1 5 3 1 1 2 3 3 1 1 2 3 3 1 1 2 3 3 1 1 2 3 3 3 1 1 1 2 3 3 3 3	2 2 4 4 29 15 2 3 4 4 2 3 18 	5 4 6 7 444 177 3 5 6 5 5 2 4 2 1 2 1 2 9 2 1 1 2 9 6 6 6 7	3066 203 208 208 5,069 2299 257 115 1299 291 183 453 58 199 221 839 100 945 171 120 33 33 95	73, 20 73, 20 50, 75 41, 60 32, 50 41, 12 45, 30 57, 50 64, 57 50, 33 58, 90 100, 00 52, 50 42, 75 120, 00 33, 17 36, 25 37, 50 58, 90 59, 50 50,	.777 5. 38 3. 08 3. 55 2. 31 20. 777 3. 55 3. 68 1. 54 1. 54 6. 15 1. 54 6. 15 1. 54 6. 15 1. 54 6. 15 1. 54 6. 15 1. 54 6. 15 1. 54 6. 15 1. 54 6. 15 1. 54 6. 15 1. 54 6. 15 1. 54 6. 15 1. 54 6. 15 1. 54 1. 61 1. 54 1. 61 1. 54 1. 61 1. 54 1. 61 1. 54 1. 61 1. 54 1. 61 1. 54 1. 61 1. 54 1. 61
Total	130	77	53	146	222	6,349	51, 62	100, 00

<sup>&</sup>lt;sup>1</sup> One not returned to work. <sup>2</sup> Two not returned to work.

### JOHNSON COUNTY,

					Dispos	ition of out	put.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Tons sold to local trade.	Tons consumed or wasted at the mine.
1 2 3	LOCAL MINES. A. S. Hindley P. M. Ward A. J. Dougherty Total—3 mines.	do	15,000 2,373 450 17,823				15,000 2,373 450 17,823	

Mines in 1916, 3. New mines, 2. Abandoned mines, 2. Mines in 1917, 3.

### WILLIAMSON COUNTY,

1	1		1			1	1
SHIPPING MINES.							
W. P. Rend Coal & Coke Co No. 2							
No. 2	Herrin	702,304	611,993		66,606	1,565	22,1
Johnston City C. Co., No.	. Johnston City	636,262	400,826		226,977		8,4
Peabody Coal Co., No. 3	. Marion	627,400			143,705	36	
Madison C. Corp., No. 9	Dewmaine	564,954			549,028		
Chi. & Carterville C. Co.,	Herrin	522,373	386.826		88,625	8,481	38,4
Big Muddy C & I. Co., No	8 Clifford	491,388	253, 294		180,501	2,574	55.0
Madison Coal Corp , No. 8	Dewmaine				468,234	2,263	11,5
Big. Muddy C. & I. Co., No	7 Herrin	481,278	365.583		74,514	4,727	36,4
Searls Coal Co., McC			403 718	50,000		4,415	
Consolidated C. Co., Lake	do do	458,043	6 440		445,000	1,003	5,6
T. G. Warden, No. 1	Harrin	395,070	344 222		440,000	2,678	
Western C. & M. Co., No.	Puch	281,402	011,222		258,771	1,847	20,7
Chicago & Big Muddy Coal		201,402			400,111	1,047	20,1
Coke Co., No. 1	Morion	280,900	999 566		55,755	149	1.4
Taylor Mining Co., No. 2	Horrin	277,823			23,565		
Haylor Milling Co., No. 2.	Herrin					1,009	
W. Virginia C. Co., No. 1.	. Marion	273,067	108,077		159,040		10,1
Chi. & Carterville C. Co., 1	Herrin	264,759	127,548		127,109		10,1
Scranton & Big Muddy Co	AI None in the second	0.45 .000	00.047		* 40 500	+ 101	11.0
Mining Co	Marion	247,638				1,464	11,3
Big Muddy Fuel Co., N. V	a. Johnston City	243,992	230,894		7,045	1,400	
Pond Creek Coal Co	Herrin	226,882	203,438		11,737	400	
Hafer Washed C. Co., No.	3. Carterville	223,721	205,792			506	
Pratt Bros., Jeffrey	Herrin	201,331	194,850			900	5,5
Taylor Mining Co., No. 1	do	196,537	129.416		65.280	44	
Duncan Coal Co., Dale	do	161,802	113,250		43,695		2,8
Williamson Co. C. Co., No	1 Johnston City	158,746	139,634		14,710		4,4
Ernest C. Co., Franco, No.	1 do	145,651	143,412		30,280	637	1,6
Taylor Mining Co., No. 3	Herrin	132,476	100,015		30,280		2,1
Carterville, Big Muddy Co	all						
Co., Carterville	Cambria	109,204	103,000		1,004		5,2
New Enterprise Coal Co	. Marion	99,665	59,755		39,714	101	,
Federal Coal Co., No. 25	Carterville	89,324	87,293			47	1,9
Johnston City Washed C. C	o. Whiteash	76,832	74,381		1,004 39,714	326	2,1
Ridge C. M. Co., No. 2		54,584	51,946			238	2,4
Marion & Pitts. C. Co., No	2 Pittsburg	30,162	28,246	116		50	1.7
Henderson & Wallace C. C	Marion	17,718	17,718				
Lewis Coal Co			9,000				
E. Lewis Coal Co			6,000				
D. Bewis coal co		- 0,000	0,000				
Total		9 634 680	5 926 349	50 116	3 999 484	44 146	384 5
1.0004		3,004,000	0,040,013	00,110	0,220,101	11,110	001,0
LOCAL MINES.							
J. W. Staleup	Contonville	10,000				10,000	
W. Stateup	cartervine	10,000				10,000	
W. H. John.		10,000				3,817	2
Young Bros		4.017				0.817	2

# TWELFTH DISTRICT, 1917.

ed for	ble ex-	Insp	pee-	operation.		Tons	nined.	number		eci- ents-	in use.	under-		other s	shers or pecial g plant.	
Kegs of powder used blasting.	Pounds of permissible plosives used.	State inspector.	County inspector.	Days of active oper	Total employees.	By hand.	By machine.	Mining machines—in use.	Killed.	Injured.	Number of motors	Number of animals ground.	Number in use,	Average daily capacity.	Tons prepared durin the year.	Number.
30 114 22 166				210 151 48 136	2 6 4 12	15,000 2,373 450 17,823										1 2 3

# TWELFTH DISTRICT, 1917.

T 11 ISI.	PIII	מוע	TILL	01,	101		- Br									
11,686		3		248	604	117,308	584,996	25	10	18	6	33				1
11,831 13,690		2		266 270	473 600	64,594 158,220	571,668 469,180	28 21	7	10	7	30	<sub>i</sub>	500		2 3
19,925 7,612		3 3		259 243 234	465 459 464	446,028 16,924	505,449	36 42		9 11 6	4 5 3	31 29 25	1	1,800 1,000	226,052 116,244	4 5 6
16,579 19,210		3 2		262 244	395 435	358,172 481,278	123,907		· i	9 8	3	28		1,000		7 8
8,304 17,870				194 215	423 380	458,043	464,313		3	3 14	3 2 2	26 11				9 10
		3		242 278	326 226	31,644 281,402		26		6 3	4 2	18 15	1	1,500	233,034	11 12
4,716 10,457		2 3		259 181	195 236	277,823	280,900	7	1		2 2					13 14
		3 2		220 213	230 332	264,759	273,067	10	i	4	1 2		····i	1,200	57,405	15 16
2,010 5,277		2		212 247	204 236	53,776	247,638 190,216	19		2 4	2	28 12		320	12,981	17 18
3,650 8,638		2		217 170	288 272	113,441 223,721	113,441	10	2	7	2 2	16 20	1	1,000	138,381	19 20
7,201		! 2		200 162	207 196	196.537			1	2	2 2 2 2 2 2 3	15				21 22
6,821		2		180 201 163	168 215 120	151,802 158,746	145,651		3	1 2	3 2	12 11				23 24 25
4,772		1		128	205				۱	4	ļ	14				26
2,984 188	6,000			195 163	219 39	109,204 99,665	8,860			1		15 1				27 28
2,727		1		111 169 188	230 203 70	89,324 67,972 51 581	8,860	6		2	2	14 15				29 30 31
575				110 97	68 39		30,162 17,718	2		···i		2				32
600				225 200	10 9	9,000 6,000						1				34 35
251,636	6,000	66		205	9,241	4,636,774	4,997,906	279	34	130	78	574	8	1,040	1,124,835	
				185 100 245	12 9 7	10,000 10,000 4 017										2 3
201				240	- 1	4,011	*********									

### WILLIAMSON COUNTY,

					Dispos	ition of out	put.	
Number.	Name of operator.	Postoffice address of the mine.	Total output.	Tons loaded on ears for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on cars.	Tons sold to local trade,	Tons consumed or wasted at the mine.
4 5 6 7 8 9	E. McClanahan F. E. Rentiro John W. Harris Handkins & Sims Thomas E. Lewis C. M. Bridis Total	Carterville Marion	1,600 800 600 600 300 31,622				3,659 1,600 800 600 250 31,326	50 296
	Total—44 mines		9,666,302	5,926,349	50,116	3,229,484	75,472	384,88

Mines in 1916, 42. New mines, S. Abandoned mines, 6. Mines in 1917, 44.

#### SHIPPING MINES, RECAPITULATION BY

					Di	sposition o	f output.		d for	ole ex-
Number.	Counties.	Number of mines.	Total output.	Tons loaded on cars for ship- ment.	Tons supplied to locomotives at the mines.	Tons sold to rail- road companies and loaded on ears.	Sold to local trade.	Consumed or wasted at the mine.	Kegs of powder used blasting.	Pounds of permissible of plosives used.
1	Williamson	35	9,634,680	5,926,349	50,116	3,229,484	44,146	384,585	251,636	6,000
	Total	35	9,634,680	5,926,349	50,116	3,229,484	44,146	384,585	251,636	6,000

### LOCAL MINES, RECAPITULATION BY

1 2	Johnson Williamson	3 9	17,823 31,622				17,823 31,326	296	166 1,553	
	Total	12	49,445				49,149	296	1,719	
	The district	47	9,684,125	5,926,349	50,116	3,229,484	93,295	384,881	253,355	6,000

### ALL MINES, RECAPITULATION BY

1	Johnson Williamson	3	17,823				17,823		166	
2	Williamson	44	9,666,302	5,926,349	50,116	3,229,484	75,472	384,881	253,189	6,000
		-								
	Total	47	9,684,125	5,926 349	50,116	3,229,484	93,295	384,881	253,355	6,000
									ş	

Whole number of mines reported for 1916, 45. Number of new and reopened mines during the year, 10. Number of mines abandoned during the year, 8. Whole number of mines reported for 1917, 47.

# TWELFTH DISTRICT, 1917—concluded.

d for	ple ex-	Insp tio	ns	operation.		Tons i	nined.	number		eci-	in use.	under-	C	oal was other s eparin	shers or pecial g plant.
Kegs of powder used for blasting.	Pounds of permissible plosives used.	State inspector.	County inspector.	Days of active oper:	Total employees.	By hand.	By machine.	Mining machines—in use.	Killed.	Injured.	Number of motors	Number of animals ground.	Number in use.	Average daily capacity.	Tons prepared during the year.
111 85 400 25 30 15				150 95 200 60 70 150	7 6 4 2 3 3	3,705 1,600 800 600 600 300									
1,553 252,189	6,000	68		139	9,294	31,622 4,668,396	4,997,906	279	34	130	78	574	8	1,040	1,124,835

### COUNTIES, TWELFTH DISTRICT, 1917.

ition.		Tons r	mined.	S.	Accid	lents.		nd.	Coal v	washers o cial prep plant.	or other aring	
Days of active operation.	Total employees.	By hand.	By machine.	Number of machines	Killed.	Injured.	Number of motors.	Animals underground	Number in use.	Average daily capacity.	Tons prepared during the year.	Number.
205	9,241	4,636,774	4,997,906	279	34	130	78	574	8	1,040	1,124,835	1
205	9,241	4,636,774	4,997,906	279	34	130	78	574	, 8	1,040	1,124,S35	

# COUNTIES, TWELFTH DISTRICT, 1917.

136 139	12 53	17,823 31,622										1 2
139	65	49,445										
188	9,306	4,686,219	4,997,906	279	34	130	78	574	8	1,040	1,124,835	

# COUNTIES, TWELFTH DISTRICT, 1917.

136 205	12 9,294	17,823 4,668,396	4,997,906	279	34	130	····-78	574	 	 1 2
188	9,306	4,686,219	4,997,906	279	34	130	78	574	 	



# **SUPPLEMENT**

MINE MANAGERS
MINE EXAMINERS
HOISTING ENGINEERS

REPORT OF MINER'S EXAMINING BOARD
REPORT OF MINE RESCUE DIVISION



### STATE MINING BOARD.

#### Examinations.

During the fiscal year ended June 30, 1917, five exminations were held for mine managers, mine examiners and hoisting engineers. Each of these tests was rigid and it is believed that each person receiving a certificate is well qualified for the position covered by his examination. The dates on which these examinations were held, the number of applicants and number of certificates granted are given below:

	19	16		1917		m 1
	Oct. 9.	Dec. 12.	Feb. 12.	Apr. 2.	June 11.	Total.
Mine managers, first class—					ľ	
Number of applicants	32	44	29	38	45	18
Number of certificates issued	24	41	25	17	34	143
Mine managers, second class—				K		
Number of applicants Number of certificates	17	12	9	7	10	5
Number of certificates	17	12	9	7	10	5.
Mine examiners—						
Number of applicants	19	19	18	29	30	11.
Number of certificates	11	14	12	14	13	6-
Hoisting engineers, first class—						
Number of applicants	8	19	13	18	26	S-
Number of certificates	4	12	9	8	16	45
Hoisting engineers, second class						
Number of applicants	4	1	4		2	1
Number of certificates	4	1	3		2	1

### MINE MANAGERS.

Name.	Post office.	County.	Age	Years experi- ence.	Certificate number.	Kind of certificate.  Kind of certificate.  1,1916, to June 30, 1917.
Adams, George T. Adkinson, Frank Aken, R. B. Aman, George M., Jr. Anderson, Joseph T. Argust, W. C. Bailey, T. F. Baird, Thomas. Barrass, James W. Bartram, Robert.	Breeds Elkville Edwards Nashville Tovey Herrin Colchester Johnston City	Fulton. Jackson Peoria Washington Christian Williamson McDonough Williamson	45 35	14 15 16 9 14 21 15 20 22 21		Second class

# MINE MANAGERS—Continued.

		•					
Name.	Post office.	County.	Age.	Years experi- ence.	Certificate number.	Kind of certificate.	Date of exam- ination —July 1, 1916, to June 30, 1917.
Bedwell, Samuel	Canton	Fulton	32	12	466	Second class	Oct. 9
Bedwell, Samuel	do	do	32	12	581	First class	Dec. 12
Bogue, James	Pokin	Tazawell	37 49	18 15	669 563	do	June 11 Dec. 12
Bohlander, Edward Bohlander, Edward Bolton, Mark C Boswell, L. A Boundy, Walter Bowie, Thomas	Farmington	Fulton	43	20	580	do	Dec. 12
Boswell, L. A	Hillsboro	Montgomery	41	29	617	do	Feb. 12
Boundy, Walter	East Peoria	Tazewell	36	20	568	do	Dec. 12
Bowne, Thomas	Cantondo .SpringfieldPekin Farmington Hillsboro .East Peoria Johnston City St. David Roodhouse .Canton	Williamson	32 30	17 12	651 557	. do	June 11 Oct. 9
Bowman Carl Bowman Carl Bowns V Boynes, Joe Brown, Thomas B Brown, Thomas B Budds, W. C. Burnett, John H Burton, John Cairns, Robert Carlton, Harry Carlton, Percy Casler, L. B. Cassassa, J. B Cathie, John Clark, Ralph Conlin, William Cooper, Frederick Cowell, William	Roodhouse	Greene	27	15	460	Second class	Oct. 9
Boyce, Joe	Canton	Fulton	26	7	497	First classdo.	Apr. 2
Brown, Thomas B	Christopher	Frankliu	38	20	668	First class	June 11
Burnett John H	Herrin	Williamson	36 37	22 18	632 614	do	Apr. 2 Feb. 12
Burton, John	Colchester.	McDonough	48	30	471	Second class	Oct. 9
Cairns, Robert	Gillespie	Macoupin	36	20	663	First class Second class First class	June 11
Carlton, Harry	Roodhouse	Greene	31	12	459	Second class	Oct. 9
Carlton, Percy	Lowistown	Sangamon	33	22	537 475	Second class	Dec. 12
Cassassa, J. B.	Springvallev	Bureau	27	12	631	First class	Apr. 2
Cathie, John	Johnston City	Williamson	52	40	624	dod	Apr. 2
Clark, John	Springfield	Sangamon	47	25	620	do	Feb. 12
Conlin William	Virden	Macoupin	42 52	27 25	583 670	do	Dec. 12 June 11
Conlin, William Cooper, Frederick Cowell, William Cramer, William	Virden	Saugamon	28	5	551	.dododo	Oct. 9
Cowell, William	West Frankfort	Franklin	30	15	611	do	Feb. 12
Cramer, William	Edwards	Peoria	50	8	484	Second class	Dec. 12
	Kangley	Williamson	37 50	25 30	538 494	First class Second class	Oct. 9 Feb. 12
Dibbins, Ed.	Belleville	St. Clair	37	22	604	First class	Feb. 12
Dickinson, W. A	Gillespie	Macoupin	36	18	666	Second class	June 11
Demoss, Will. Dibbins, Ed. Dickinson, W. A Docherty, Thomas Donnelley, Peter	Kangley Bellcville Gillespie Preemption LaSalle	Mercer	33 44	17	467 560	Second class	Oct. 9 Dec. 12
Dooley, John C	Peoria	Peoria	41	33	605	First class	LECH 12
Dooley, John C. Dougherty, James.	Peoria Herrin LaSalle Farmington	Williamson	27	12	652	dododododo	June 11
	LaSalle	LaSalle	45	33	627	do	Apr. 2
Du Bois, I. R	Bassington Elmira Springfield Gillespie Virden. Colchester Kincaid Kangley Percy Springfield Springfield Springfield Leuzburg Collinsville Victoria Springfield Cantrall Tallula Lewistown do not collined Lewistown Leuzburg Leuzburg Leuzburg Leuzburg Leuzburg Leuzburg Leuzburg Leuzburg Leuzburg Leuzburg Lewistel Belleville Peoria do	Fulton	62 25	15	587 479	Second class	Dec. 12 Dec. 12
Eadie, James W	Springfield	Sangamon	35	20	534	First class	Oct. 9
Ellis, Thomas J	Gillespie	Macoupin	34	15	616	do	Feb. 12
Fairburn, George	Virden	do	52	25	648	Second class	June 11 Oct. 9
Fenton, W. J.	Kincaid	Christian	29 39	12 26	473 597	First class	Dec. 12
Fink, John J	Kangley	LaSalle	29	14	487	Second class	Feb. 12
Fink, John J Forester, Leonard Forster, Charles Franckey, Pio.	Percy	Randolph	32	17	607	First class	Feb. 12
Forster, Charles	Springfield	Sangamon	41 31	29 11	640 602	do	Apr. 2 Feb. 12
Frech, Ferdinand	Lenzburg	St. Clair	28	14	572	do	Dec. 12
Frech, Ferdinand Fries, William J Gale, James D Gillen, Patrick Gillespie, James	Collinsville	Madison	30	14	661	do	June 11
Gale, James D	Victoria	Knox	33	9	506	Second class First classdo	June 11 Oct. 9
Gillesnie James	Springheid	Sangamon	49	28 25	555 536	do do	Oct. 9
Golladay, Edward	Tallula	Menard	43	28	576	do	Dec. 12
Goodman, Jesse. Greiner, William F Hanson, Charles O Harriman, Edward	Lewistown	Fulton	26	10	476	Second class	Dec. 12
Greiner, William F	Belleville	St. Clair	41	24	646	First class	Dog 12
Harriman Edward	do do	do	26 24	6 8	579 465	Second class	Oct. 9
Hauck, John F.	Staunton	Macoupin	00	18	626	First class	Apr. 2
Hauck, John F. Heffron, John	Springfield	Sangamon	45	33	622	do	Feb. 12
Hintz, Frank Hodge, Burress Hope, George	Staunton Springfield Geneseo	Henry	38 31	20 16	$\frac{469}{542}$	Second class First classdo. Second class First class	Oct. 9
Hope, George	Johnston City	Williamson	39	26	647	do	June 11
Horton, John D. Humphreys, C. C. Hynes, John T. Jannessa, Frank Johns, W. H.	Muddy. Johnston City. Girard Herrin Cuba Sherman Carterville	Macoupin	35	12	591	do do do do Second class do	Dec. 12
Humphreys, C. C.	Herrin	Williamson	51	22	660	do	June 11
Januessa Frank	Sherman	Sangamon	42 25	29 8	552 571	do	Dec. 12
Johns, W. H.	Carterville	Williamson	40	22	496	Second class	Apr. 2
Johnson, John	Oak Hill	Peoria	49	30	486		
Johns, W. H. Johnson, Johnson, J. L. Jones, David W. Keys, Charles D.	Auburn	Sangamon	40 29	26 10	541 639	First class	Oct. 9
Keys, Charles D	Wesley City	Tazewell	36	16	598	do	Dec. 12
. /	1						1

# MINE MANAGERS—Continued.

Name.	Post office.	County.	Age.	Years experi- ence.	Certificate number.	Kind of certificate.	Date of exam- ination —July 1, 1916, to June 30, 1917.
Kilgore, William	Colchester	McDonough	45	22	470	Second class	Oct. 9
King, Fred. Knies, Anton. Knies, August	Springfield Breesedo	Sangamon	37 32	20 18	559 606	First class	Dec. 12 Feb. 12
Knies, Angust	do	do	30	12	662	ldo	June 11
Knies, John	do	do	34	14	593	do	Dec. 12
Laffine William	Toluca	Marshall	38	25	550	do	Oct. 9
Letner, Andy	Sandoval	Menara	54 44	35 32	464 561	Second class First class	Oct. 9 Dec. 12
Letner, Andy. Lewis, E. G. Lindsay, John Liptack, Lotis	do	Fulton	36	24	503	Second class	June 11
Liptack, Lotis		Lasane	29	16	507	do	June 11
Lucas, A. E. Luke, George Lyons, Guy C. McAvoy, Patrick	Randall	KnoxFranklin	48 32	10 17	478 645	First class	June 11
Lyons, Guy C	Benton Gillespie Chatham	Macoupin	32	8	667	do	June 11
McAvoy, Patrick	Chatham	Sangamon	32	20	554	do	Oct 9
		Fulton	30 39	26	619	do	Feb. 12
McKinney F L	Gillespie	Macoupin	28	13	553 573	do do do	Dec. 12
McLaughlin, John	Canton	Fulton Sangamon		15	596	do	Dec. 12
McGill, Dan. McKinney, F. L. McLaughlin, John McLaughlin, T. B.	Auburn	Sangamon	31	15	556	do	.]Oet. 9
		Peoria	24 27	13	654 601	do	Feb 12
McSherry, Barney	Duquoin Lincoln Petersburg	Perry Logan Menard	47	20	592	do .	Dec. 12
Mallegren, J. W., Jr. Mann, Oscar W. Martin, Enoch.	Petersburg	Menard	45	30	548	Second class	Oct. 9
Mann, Oscar W	Canton Decatur	r unton	41 46	12 30	477 634	First class	Dec. 12
Martin, J. D.	Girard	Macoupin	50	36	504	Second class	LInne 11
Martin, J. D. Mathis, Charles E. Mauschbaugh, Theo.	Duquoin Edwards	Perry	34	12	644	First class Second class First class	June 11
Mauschbaugh, Theo	Edwards	Peoria	43	25	485	Second class	Dec. 12
Mifflin Amos	Duquoin	Marshall	26 38	12 22	610 650	do	June 11
Milam, Ben Milan, T. H Mitchell, Thomas	Herrin	Williamson	31	16	656	do	June 11
Milan, T. H.	Galesburg Streator	Knox	43	5	539	do	Oct. 9
Mitchell, Thomas	Peoria	LaSalle	48 31	35 15	488 482	Second class	Feb. 12 Dec. 12
Mohn, Thomas	Harrisburg	Saline	34	13	540	First class	. Oct. 9
Morgan, A. D. Morris, Wm. T.	Oneida	Knox	46	15	461	Second class	. Oet. 9
Murphy James	Duquoin Pana	Christian	49 29	25 14	562 659	First class	Dec. 12 June 11
Murphy, James. Murphy, Thomas W. Murrell, John.	Mapleton	Peoria	35	21	500	Second class	Apr. 2
Murrell, John	Mapleton Danville	Vermilion	27	10	543	Second class First class	Oct. 9
Neal, James E Nesbit, Charles L	Howen	Hancock	57 49	18 37	505 637	Second class First class	June 11
Noel Archie II	Harrishurg	Saline	27	14	545	do	Oet. 9
O'Hare, Denis F Olander, Walter Oliver, William, Sr	Harrisburg Springfield Pekin	Saline Sangamon	35	23	590	do	Dec. 12
Olander, Walter	Pekin Riverton	Tazewell	33 51	15	564 569	do	Dec. 12 Dec. 12
O'Rourk, John	Staunton	Sangamon Macoupin	46	25	621	do	Feb. 12
Pasco, Frank	Viola	Mercer	35	19	462	Second class	Oct. 9
		Perry	38 25	22 7	643 665	Birst class	Linne II
Phillips, Daniel	Sparta Springvalley	Randolph Bureau	61	52	535	do	Oct. 9
Petty, Walter J. Phillips, Daniel. Pinson, Sam. Porter, J. R. Potter, Ed. Pranke, A. H. Prediger, Joseph A. Price, Herry	Johnston City Littleton	Williamson	52	27	625	do. do. do. Second class	Apr. 2
Porter, J. R.	Littleton	Schuyler	45	25	512	Second class	June 11 Feb. 12
Pranke A H	Virden Pana	Macoupin Christian	56 44	47 27	615 642	First classdo	June 11
Prediger, Joseph A	Lenzburg	St. Clair	29	10	655	do	Llinne 11
Price, Harry	Norris Carterville	Fulton	29	11	618	dodo	Feb. 12
Rains, R. L.	Carterville	Williamson	30 27	12	570 565	do	Dec. 12 Dec. 12
Price, Harry Rains, R. L Rarick, P. J Reed, Alvia E Reynolds, Daniel Reynolds, William Righter, Fract I	Troy	Peoria	35	16	493	Second class	Feb. 12
Reynolds, Daniel	MapletonGirard	Macoupin	31	18	574	First class	. Dec. 12
Righter Fraget I	do Springfield	do Sangamon	61 38	50 24	609 658	do	Feb. 12
Padambush Charles	Wood Enonlyfort	Franklin	27	9	549	dododododo	Oct. 9
Ross, J. W.	Pekin	Tazewell	37	12	623	do	Feb. 12
Roth, John	Streator	LaSalle	67	45 23	510 630	Second class	. June 11
Royce, John	Farmington Westville	Vermilion	45	30	595	First class	Dec. 12
Ross, J. W. Roth, John Roy, Hugh N. Royce, John Ruble, E. E. Scattergood, John	Roanoke	Woodford	28	21	547	dodo	Oct. 9
Scattergood, John	Riverton Belleville	Sangamon	49 37	30 12	612 635	do	Feb. 12
Schaller, John R	Denevine	St. Claif	01	12	000		Tapi. 2

# MINE MANAGERS-Concluded.

							_
Name.	Post office.	County.	Age.	Years experience.	Certificate number.	Kind of extificate.  Kind of certificate.  Kind of July 30, 191	n- on y 6,
Schimpf, B. A. Schneider, Fred Scott, George Sergent, Frank Shaw, Clarence Sheerin, Charles Simpson, David Smith, George T. Somerson, Robert. Stope, Robert. Stope, Robert. Stope, Robert. Stope, Island Stone, Island Stone, Island Stone, Island Stone, Island Taylor, John P. Thackston, C. M. Thomas, Oscar Thompson, Thomas. Tonner, Martin Walker, John L. Ward, J. E. Warner, Albert Wart, Julian Watts, John J. Webb, W. H. Weir, James Welsh, John William William, Harry E. Willis, Hugh. Willis, Hugh. Willson, G. A. Wilson, John Wilson, Olnh Wilson, William Wilson, William Wilson, William Wilson, William Wilson, William Wilson, William Wilson, William Wilson, William Wilson, William Wilson, William Wilson, William Wilson, William	Wyoming Wyoming Virden Divernon Johnston City Coal Valley Coal Valley Carterville Streator Colchester .do Catterville Generator Ganton Matherville Belleville Best Peoria Panama Springvalley Streator Streator Gillespie Best Peoria Panama City Hanna City Hanna City Hanna City Hanna City Hanna City Hanna City Hanna City Hanna City Herrin Gillespie Herrin Familiespie Herrin Farmington Sparta Carbondale Cutler Belleville	Mercer St. Clair Stark Macoupin Sangamon Williamson Rock Island Williamson Rock Island Williamson LaSalle Mc Donoughdo Mc Donoughdo Mc Donoughdo Macison Mercer Tazewell Williamson LaSalle Williamson Tazewell Williamson Macoupin St. Clair Greene Macoupin St. Clair Greene Macoupin St. Clair Greene Macoupin Futon Randolph Jackson Petry Randolph Jackson Petry Petron Randolph Jackson Petry Petron Randolph Jackson Petry Petron Randolph Jackson Petry Petron Randolph Jackson Petry Randolph Jackson Petry Randolph Jackson Petry Randolph Jackson Petry Randolph Jackson Petry Randolph Jackson Petry Randolph Jackson Petry Randolph Jackson Petry Randolph Jackson Petry Randolph Jackson Petry Randolph Jackson Petry Randolph Jackson Petry Randolph Jackson Petry Randolph Jackson Randolph Randol	31 24 24 22 29 37 37 44 43 43 43 43 43 43 43 43 43	12 8 14 21 6 6 14 9 23 35 14 42 20 31 14 15 25 14 40 20 31 15 15 29 20 31 14 45 10 11 11 11 11 11 11 11 11 11 11 11 11	502 483 673 673 683 8463 463 6838 474 481 509 575 546 480 671 584 567 684 672 686 686 686 686 686 686 686 686 686 68	First class.	9 $2$ $12$ $9$ $12$ $11$ $11$ $11$ $12$ $12$ $12$ $12$
Witt, Stanley Woodbridge, T. R Woodward, Thomas Woolary, Joe Young, Harold F. Yuill, Archie Zude, Herman	Marion Vergennes Springfield do Herrin	Williamson Jackson Sangamondo Williamson	31 22 32 36 30 28 37	16 11 12 22 15 18 22	594 511 501 608 558 628 674	do   Dec     Second class   June     do   Apr     First class   Feb     do   Dec     do   Apr     do   June	11 2 12 12 12

# MINE EXAMINERS.

Name.	Post office.	County.	Age.	Years experience.	tificate umber.	Date of exam- ination —July 1, 1916, to June 30, 1917.
Allen, Ben H	Panama Carriers Mills	Montgomery	27	8	858	June 16
Anderson, Josh	Carriers Mills	Saline	47	22	799	Oct. 9 Apr. 2
Bailey, T. F.	Herrin	Williamson	29 24	15 10	840 837	Apr. 2 Apr. 2
Bullock, Ostel	Gillespie	Macoupin	36	22	846	Apr. 2
Cairns, Robert	O'Falion	St. Clair	25	10	814	Apr. 2
Champley, Richard	Seatonville	Bureau	28	5	803	Oct. 9
Coats, Alexander	Gillespie	Macoupin	44	26	820	Dec 12
Coles, A. J.	do	do	41	16	834	Apr. 2
Cowden, John	do	do	36	18	841	
Cravens, T. L	Herrin	Williamson Fulton	26 34	10 16	854 819	June 16 Dec. 12
Dean, Thomas	Canton	LaSalle	44	32	813	Dec. 12
Flynn, James F	Rutland	do	27	10	828	Feb. 12
Fox, D. T	Duquoin	Perry	33	12	801	Oct. 9
Fox, D. T. Fulton, William	Gillespie	Macoupin	38	26	835	Apr. 2
Gibson, Smith	Eldorado	Saline	39 27	17	847 809	Apr. 2 Dec. 12
Harrop, George	Standard Logan	Putnam Franklin	26	14 12	852	June 16
Hawes, Geoffrey Hogan, John M	O'Fallon	St. Clair	35	25	851	June 16
Horn, Oscar	Herrin	Williamson	41	26	842	Apr. 2
Hynd, John	Orient		45	30	806	Oct. 9
James, Earl	West Frankfort	do	25	- 8	823	Feb. 12
Jones, George	Gillespie	Macoupin	24	6	860	June 16 June 16
Jones, Lewis Lally, Patrick J	Benton	Franklin Sangamon	24 41	6 21	857 821	June 16 Dec. 12
Leech, Ernest	Livingston	Madison	45	26	830	Feb. 12
Lipp. James	Granville	Putnam	33	8	800	Oct. 9
McDonald, Gilbert	Belleville	St. Clair	45	30	824	Feb. 12
McManus, Hamp E	Worden	Madison	35	15	802	Oct. 9
McPhail, Philip	Eldorado	Saline	54	43	856	June 16 Dec. 12
Marty, John W	Dorrisville	Williamson	25 36	24	818 808	Dec. 12
Milam, Ben	Herrin		31	15	825	Feb. 12
Morris, Enoch	do	Perry	32	12	833	Feb. 12
Morris, Joseph	. do	do	45	25	832	Feb. 12
Mouchlin, Gavin	Gillespie	Macoupin	36	20	839	Apr. 2 Apr. 2
Mustard, Ferm	Farmington	Fulton	21 27	1 10	836 827	Apr. 2 Feb. 12
Neil, Oscar Neil, Thomas R	SpringfieldGilchrist	Sangamon	35	22	817	Dec. 12
		Franklin	23	7	826	Feb. 12
Pallister, Ralph	Harrisburg	Saline	21	7	798	Oct. 9
Pallister, Ralph Phillips, T. H Prediger, Joseph	Herrin	Williamson	38	13	843	Apr. 2
Prediger, Joseph	Lenzburg	St. Clair	29	9	829	Feb. 12 Apr. 2
Preval, Harry Richter, Ernest J Roberts, William C	Kincaid	. Christian	32 37	18 24	838	Apr. 2 Dec. 12
Pohorte William C	Springfield	Sangamon	26	10	859	June 16
Robertson, James	Duquoin		46	28	831	Feb; 12
Rowley, W. W.	Tower Hill	Shelby	23	6	849	June 16
Scott, George Simpson, C. C. Simpson, David.	Tower Hill	Mercer	30	16	805	Oct. 9
Simpson, C. C.	Royalton	Franklin	50	42	797	Oct. 9
Simpson, David	Divernon	Sangamon Williamson	28 30	16	807	Oct. 9 Dec. 12
Sirles, George E	Herrin	Shelby	29	12	853	June 16
Staton, Preston	Herrin	Williamson	22	5	855	June 16
Stephenson, William	. Carterville	do	44	30	812	Dec. 12
Stille, Adolph	Staunton	Macoupin	27	6	810	Dec. 12
Sullivan, Patrick H	. Springfield	Sangamondo	21	5	845 814	Apr. 2 Dec. 12
Tarases, Joe M	Zeigler	Franklin	33 26	16 16	822	Feb. 12
Trautman, Frank Vachetti, George G	Westville	Vermilion		12	804	Oct. 9
Ward, James	. Breese	. Clinton	53	41	848	June 16
				29	815	
Watts, Jacob	. Divernon	. Sangamon	42 62	50	850	Dec. 12 June 16

# HOISTING ENGINEERS.

Name.	Post office.	County.	Age.	Years experi- ence.	Certificate number.	Kind of certificate.	Date of exam- ination —July 1, 1916, to June 30, 1917.
Adams, John. Ashman, Mack Bennett, Earl Bixler, Guy R. Bohlander, John. Brackney, George A. Brous, Charles Byerley, Everett Campbell, Arthur J. Carpenter, Thomas B. Cavaletti, Peter. Constantine, Peter.	Herrin Pekin. Eldorado. Pekin. Christopher Norris. Georgetown Farmington New Baden Springvalley Granville	Williamson Tazewell Saline Tazewell Franklin Fulton Vermilion Fulton Clinton Bureau Putnam	32 25 23 22 29	8 3 2 ½ 2 ½ 5 9 2 2 3 ½ 8 3	19 602 593 632 599 615 616 604 587 594 589 630	Second class. First classdo.	June 11 Dec. 12 Apr. 2 Apr. 2 Feb. 12 Oct. 9 Dec. 12 Dec. 12
Cook, Dess. Cook, James O Curl, Raymond Custer, Horace D Davis, Webster H Dickinson, Thomas. Firestone, Charles R Foreman, L Forester, James. Foulk, John M Foulk, W L Glenn, Earl	sandoval St. David Herrin Farmington Pittsburg Gillespie Clifford Edwardsville Duquoin	Marion. Fulton. Williamson Fulton. Williamson Macoupin	33 42 24 41 33 27 26 44 48 32 26	4 9 3½ 3 7 3 8 5 2 8 3	627 598 625 586 608 605 619 633 600 612 629	.do .do .do .do .do .do .do .do .do .do	June 11 Oct. 9 Feb. 12 Feb. 12 June 11 June 11 June 11 Dec. 12 Apr. 2 June 11
Gelladay, Isaac N. Gray, Edward Hagaman, David Hall, Harry Hudnell, Hoy Hughes, Thomas J Jacobs, Samuel James, L. T Kell, John T Kelley, Otls. La Cour, August Lamm, F. E Lewis, James E Marshall, W. E Martiness, John	Gillespie Matherville	Macoupin Mercer	21 49 25 23 24 25 36 43 42 37 25	4 2 2 3 3 2 2 4 7 5	613 591 611 628 595 603 601 597 596 592 610	. do	Dec. 12 Apr. 2 June 11 Dec. 12 Feb. 12 Feb. 12 Dec. 12 Dec. 12 Dec. 12 Dec. 12
La Cour, August Lamm, F. E Lewis, James E Marshall, W. E Martiness, John Mason, Frank Milan, T. H Mitchell, David Moore, C. E Neal, J. H. Plummer, Alonzo H.	Carbondolo	Lookson	55 33 44 48 44 44 44 37 38 32 31	15 5 * 5 7 2 6 2 2 8	624 607 16 622 21 18 614 585 606 609	.dodo . Second class . First class . Second classdofodododododo .	June 11 Feb. 12 Oct. 9 June 11 June 11 Feb. 12 Apr. 2 Oct. 9 Feb. 12 Feb. 12
Pulley, Guy Purdy, Charles Reay, John Reitz, George W Rentfro, M. M. Rice, Cleve. Rury, John A Scott, Henry V Spenny, Ora Tandy, W. F Thronton, John Upchurch, P. O Waite, Leonard	Marion Sawyerville Sawyerville Wyoming Toluca Johnston City Gillespie Percy Pocahontas Conton Colchester Carbondale	Williamson Macoupin Stark Marshall Williamson Macoupin Randolph Bond Fulton McDonough Jackson	26 24 32 33 33 32 42 28 32 57 28	12 2½ 4 3 14 4 7 2 2 2 6	590 623 631 14 588 621 618 13 620 617 20 22	Second class First class do Second class	June June June June June June June June
Upchurch, P. O	Galatia Wyoming Lewistown	Saline Stark Fulton	32 21 38	1 4	626	do	Oct. 9

<sup>\*</sup> One month.

### MINERS' EXAMINING BOARD—STATE OF ILLINOIS.

The Miners' Examining Board of the State of Illinois, presents herewith the fourth annual report of the work accomplished during the year ended February 28, 1917.

The following table shows how many miners have been examined for certificates as practical coal miners, together with dates and meeting places where the examinations were held, the number rejected, the num-

ber of certificates issued and the amount of fees collected.

There were 1,397 applicants rejected for the following reasons: Did not know the State Mining Law; non-experience; could not speak the English language; did not know the name of the coal company they had worked for in other states. There were 113 men out of the 1,397 that did not know the State Mining Law, and were rejected for that reason; 1,020 men rejected for non-experience; 254 men that could not speak the English language, and 10 men that did not know the name of the coal company they had worked for previously, which information is required of each applicant for future reference.

The revenue collected the past year, amounting to \$15,632, has been turned over to the State Treasurer, the board having issued certificates

to 7,816 miners, as shown by the following table.

On July 1, 1915, the law creating the Illinois Miners' Examining Board was amended, providing that all miners holding certificates that had been issued by the various county miners examining boards in Illinois, should be exchanged for substitute State certificates, free of charge. During the fiscal year ended June 30, 1916, 56,277 substitute certificates were issued: this number added to the 21,400 original certificates, for which a fee was charged, makes the number of certificated miners in the State, barring deaths and removals, 77,677 on March 1, 1917.

EDWARD MAHER, President.
John Knies, Secretary.

### Illinois State Miners' Examining Board.

Register of applicants received and rejected, certificates issued, etc., for the fiscal year ending February 28, 1917:

Date.	Meeting place.	Number of appli- cants.	Number rejected.	Number of certificates issued.	Revenue collected.
1916					
Aar. 1	Braceville Springvalley Peoria Taylorville Eldorado West Frankfort Herrin Duquoin Belleville Breese	54	9	45	\$ 90 0
2	Springvalley	81	32 2	49	98 0
3	Peoria	20	2	18	36 (
4	Taylorville	25 73	10	15	30 (
7	Eldorado	73	10	63	126
8	West Frankfort	23	4	19	38 (
9	Herrin	71	6	65	130
10	Duquoin	50	18	32	64 (
11	Belleville	38	12	26	52
14	Breese	19	2	17	34
15	Breese Staunton Springfield Streator Springvalley Peorla Belleville	80	24	56	112
16	Springheid	41	12	29	58
pr. 6	Streator	31		31	62
7	Springvaney	65	35	30	60 (
8	Pello-illa	44	4	40	80
12	Stoumton	49 65	13	36	72 76
13	Springfield	33	27	38	
14	Taylorvilla	19	6	27 13	54 26
15	Eldorado	58	18	40	80
20	Benevine Staunton Springfield Taylorville Eldorado West Frankfort. Herrin.	71	23	48	96
20	Harrin	99	20	76	152
28	Copper	57	23 10	47	94
29	Sesser Duquoin	57 77	21	56	112
av 2	Springvalley Canton Peoria Taylorville	45	21 19	26	52
3 3	Centon	35	3	32	64
4	Paoria	17	4	13	26
5	Taylorville	23	3	20	40
6	Staunton	54	25	29	58
9	Fldorado	58	7	51	102
10	Eldorado West Frankfort	58 33	9	24	48
11	Herrin	45	9	36	72
19	Duquoin	45 32	• 11	21	42
16	Controlio	49	2	47	94
17	Relleville	49 33	13	20	40
18	Springfield	54	12	42	84
ine 1	Danville	53	18	35	70
2110 2	Peoria	38	8	30	60
6	Springvallev	38 70	15	55	110
12	New Baden	34	13	55 21	42
13	Belleville	27	6	21	42
17	Staunton.	27 76	11	65	130
20	Eldorado	112	11	101	202
21	West Frankfort	54	12	42	84
22	Herrin	126	16	110	220
23	Duquoin	106	20	86	172
27	Springfield	47	13	34	68
28	West Frankfort. Duquoin. Centralia Belleville Springfield. Danylle Peorla Springvalley New Baden Belleville Staunton. Eldorado. West Frankfort. Herrin, Duquoin. Springfield Tayloville Centralia Pana. Springfield Springwalley Canton.	51	5	46	92
ily 6	Centralia	18	İ	18	36
7	Pana	14	1	13	26
11	Springvalley	73	15	58 87	116
12	Canton Peoria Eldorado	103	16	87	174
13	Peoria	18	1 9	17 75	34
18	Eldorado	84	9	75	150
		82	12	70	140
20	Herrin Duquoin Springfield	61	10	51	102
21	Duquoin	71 33	9	62	124
25	Springneid	33	3 8 7	30	60
		55	8	47	94
27	Springvalley. Canton	42	7	35	70
ug. 2	Springvalley	46	14	32 27	64
3	Canton	32	5	27	54
4	Peoria.	79	13	66	132
8	Eldorado	87	13	74	148
9	Peoria Eldorado West Frankfort Herrin	57	11	46	92
10	Herrin	76	7	69	138
11	Duquoin	38	10	28	56
17	Duquoin Springfield Taylorville Staunton	53 32	10	43 28	86
18	Taylorville	32	.4	28	56
22	Staunton	37	14	23 50	46
23	Collinsville	61	11	50	100
24	Belleville	23	2	21 57	42
ept. 1	Danville	63	6	57	114
6	Collinsville Belleville Danville Taylorville	19	3	16	32
0	Uglesby	88 66	12 8	76 58	152 116
7					

Date.	Meeting place.	Number of appli- cants.	Number rejected.	Number of certificates issued.	Revenue collected.
1916					2704.00
nt RIF	Peoria	61 39	9 2	52 37	\$104 00 74 00
15 E	Belleville	57	12	45	90 00
	taunton. pringfield.	85	9	76	152 00
26 1	Eldorado West Frankfort	124	9	115	230 00
27 N	West Frankfort	89	16	73	146 00
28 I	Herrin	99	16	83 35	166 00 70 00
29 I	Herrin Duquoin	51 25	16 5	20	40 00
		40	10	30	60 00
5 6	Springvalley	73	3	70	140 00
611	Peoris	42	3	39	78 0
1017	Fldorodo	188	13	175	350 0
11 7	West Frenkfort	110	15	95	190 0 278 0
12.1	Herrin	155 93	16 21	139 72	144 0
13	Duquoin	64	2	62	124 0
	Belleville Collinsville	47	9	38	76 0
20 0	Coninsvine Staumton Springfield Springvalley	101	16	85	170 0
27	Springfield	106	7	99	198 0
ov. 10	Springvallev	81	18	63	126 0
		80	5	75	150 0 150 0
14	Eldorado	89 74	14 19	75 55	110 (
15	West Frankfort	158	19	139	278 (
16	Herrin	13		12	24 (
17 21	Herrin Murphysboro Duquoin Centralia	76	17	69	138 0
22	Centralia	51	1 2	50	100 0
23	Belleville	109	2	107	214 (
24	Staunton	67	8	59 42	118 ( 84 (
98	Toylorville	47 100	5 14	86	172 (
29	Springfield	50	10	40	80 (
ec. 5	Springfield Springvalley Canton	50	3	47	94 (
5	Peoria	44	4	40	80 (
8	Danville	147	15	132	264 (
14	Belleville	63		. 63	126
1.5	Staunton	71	9	62	124 190
19	Eldorado West Frankfort.	105 98	10	95 89	178
20	West Frankfort	110	4	106	212
21	Herrin	58	i	57	114
28	Taylorville	17	2	15	30
29	Springfield	103	7	96	192
1917			4.0	42	86
an. 3	Springvalley	55	12	. 43	22
4	Rock Island	11 67	4		126
5 6		58	i e		104
0	Danville	76	9		134
10	Eldorado. West Frankfort.	54	8	46	
11	Herrin Duquoin	84	8	76	
12	Duquoin	49	8	107	S2 214
17	Belleville	110 86	11		
18	Staunton	30	11		
9.4	Taylorville Springfield	81		78	156
Feb. 6	Canton	70	4	66	132
7	Canton Peoria Springvalley	52		51	
8	Springvalley	69	1		
				13	26
15	Taylorville Springfield	26			142
16	Springheid	98			176
20	Eldorado West Frankfort	111		91 92	184
22	Herrin	. 140	1	1 129	258
23	Duquoin	. 86	1		150
27	Belleville	. 91		8	164
	Staunton	. 83	2	3 60	120
	Total	9,213	1,39	7 7,810	\$15,632

### MINE RESCUE DIVISION.

Following is the fourth report of the Mine Rescue Station division, covering a period extending from January 1, 1915, to July 1, 1917.

During this period, the work of the mine rescue stations was supervised by the following commission, appointed by Governor E. F. Dunne:

Representing the State Mine Inspectors: Thomas H. Devlin, As-

sumption.

Representing the Coal Miners: Fernand Bernard, Westville; John Slattery, Toluca.

Representing the Coal Mine Operators: Thomas Jeremiah, Willisville: George H. Deemy, Peoria.

Representing the Department of Mining of the University of Illi-

nois: Harry H. Stock, Urbana.

Representing the Federal Bureau of Mines: Joseph A. Holmes, Washington, D. C. (Upon the death of Dr. Holmes in August, 1915, Van H. Manning of Washington, D. C., was appointed as his successor.)

### CHANGES MADE IN THE WORK.

During the year previous to January 1, 1915, certificates had been given to miners completing a course of six lessons in helmet work and passing the test. Experience had demonstrated that six lessons were not sufficient to ensure competent and efficient apparatus wearers, and beginning January 1, the course was increased to twelve lessons.

The three mine rescue cars had been touring the State the past three years, instructing miners in first aid and helmet work. The commission came to the conclusion that the project was not achieving its purpose, viz: the permanent organization of local first aid teams and mine rescue corps. In many instances, the cars had to be stationed on side-tracks some distance from the town, making it inconvenient for the miners to visit them; furthermore, limited space on the cars did not permit either helmet work or first aid to be taught in a satisfactory manner, and halls had to be rented in the town for teaching purposes.

Experience in helmet work had proved to the commission the comparative uselessness of giving helmet training to men at mines where there were no helmets. As soon as the car left with its equipment of apparatus, the men, for lack of apparatus, had no opportunity to keep in training. Apparatus worn by a half trained man, or by one not in recent and constant training is not only dangerous to the wearer but to the men with him. The commission therefore called in the three cars in March, 1915, placing them in the car barns at the LaSalle, Spring-

field and Benton stations, and arranged for first aid instruction to be given by instructors, who could cover their itinerary more rapidly by regular train than by arranging for the transportation and parking of special cars.

Since each station's work was in charge of a superintendent and assistant, the commission concluded that the office of Mine Rescue Station Manager, carrying a salary of \$3,000 per annum, was not necessary, and recommended to the Governor that the position be declared vacant. Governor Dunne approved this course, and the position was abolished on April 1, 1915.

Previous to November, 1915, the three sub-stations located respectively at Herrin, Harrisburg and Duquoin depended on local volunteer helmet teams, serving without pay. As a result, the personnel of the teams was constantly changing, and with no dependable team, the superintendent of the sub-station, with equipment of oxygen breathing apparatus, was practically helpless if called to a mine fire or explosion. Therefore, in November, 1915, the commission directed the three sub-station superintendents to select a local team of five miners, said men to undergo a rigid physical examination by a competent physician, the team to practice mine rescue work not less than two hours each week, and to be paid for such practice work by the State. As a result, the State now has six dependable mine rescue teams composed of miners, familiar with local mining conditions, and ready to respond to calls for assistance at mine fires or explosions.

#### Fires and Explosions.

The teams have responded to the following calls:

January 20, 1915, fighting fire at Big Muddy Coal Co., Herrin, Herrin Mine Rescue Team.

January 27, 1915, fighting fire at Chicago & Carterville mine, Herrin,

Herrin Mine Rescue Team.

February 24, 1915, exploration work at Taylor mine, O'Fallon, Springfield Mine Rescue Station Assistant.

February 27, 1915, fighting fire at Grayson mine, Saline County Coal Co., Harrisburg Mine Rescue Team.

March 5, 1915, fighting gob fire at Spring Creek Coal Co. mine, Spring-

field, Springfield Mine Rescue Team. March 13, 1915, opening seal at Big Muddy Coal Co. mine, Herrin, Herrin Mine Rescue Team.

March 20, 1915, opening seal at Big Muddy Coal Co., Herrin, Herrin

Mine Rescue Team.

April 16, 1915, fighting fire at Big Muddy Coal Co., Herrin, Herrin Mine Rescue Team.

April 21, 1915, fighting fire at Lake Creek mine, Johnston City, Herrin Mine Rescue Team.

May 8, 1915, opening fire seal at Big Muddy Coal Co., Herrin, Herrin Mine Rescue Team.

May 17, 1915, opening fire seal at Lake Creek mine, Johnston City, Herrin Mine Rescue Team.

June 10, 1915, fighting fire in air shaft of Mattheison & Hegeler mine, LaSalle, LaSalle Mine Rescue Team.

July 11, 1915, exploration work at West mine of West Frankfort Coal Co., Benton Mine Rescue Team.

July 27, 1915, exploration work at United Coal Mining Co. mine, Christopher, Benton Mine Rescue Team.

September 8, 1915, repairing leaks in fire wall at Mattheison & Hegeler mine, LaSalle, LaSalle Team,

November 29, 1915, fighting fire at Pond Creek mine, Herrin, Herrin

Mine Rescue Team.

November 30, 1915, fighting fire at mine No. 3, Saline Coal Co., Harrisburg, Harrisburg Mine Rescue Team.

December 17, 1915, fighting fire at Peabody mine, Springfield, Springfield Mine Rescue Team.

December 21, 1915, fighting fire at Lake Creek mine, Johnston City, Herrin Mine Rescue Team.

December 31, 1915, opening seal at Lake Creek mine, Johnston City, Herrin Mine Rescue Team.

February 2, 1916, fighting fire in air shaft, Chicago, Wilmington & Franklin Coal Co., Orient, Benton Team.

February 9, 1916, exploration work after explosion at Lake Creek mine, Johnston City, Herrin Mine Rescue Team.

March 11, 1916, fighting fire at Chicago & Carterville mine, Herrin, Herrin Mine Rescue Team.

March 14, 1916, fighting fire at Majestic mine, Duquoin, Duquoin Mine Rescue Team.

March 18, 1916, opening fire seal at above mine, Herrin Team.

May 18, 1916, opening fire seal at Orient mine, Benton Team.

May 18, 1916, fighting fire at Majestic mine, Duquoin, Duquoin Mine Rescue Team.

June 4, 1916, ditto.

June 26, 1916, fighting fire at Orient mine, Benton Mine Rescue Team. July 27, 1916, exploration after explosion at United Coal Co.'s mine, Christopher, Benton Team. August 26, 1916, exploration after explosion at Chicago & Carterville

mine, Herrin, Herrin Team.

October 15, 1916, fighting fire at Lake Creek mine, Johnston City, Herrin

October 26, 1916, fighting fire at Pond Creek mine, Herrin, Herrin Team. October 29, 1916, opening fire seal at Lake Creek mine, Johnston City, Herrin Team.

November 6, 1916, opening fire seal at Pond Creek mine, Herrin, Herrin

Mine Rescue Team.

December 3, 1916, fighting fire at Pond Creek mine, Herrin, Herrin Team.

December 13, 1916, fighting fire at Logan mine, Benton Team.

December 19, 1916, exploration work at Oliphant-Johnston Coal Co. mine, Bruceville, Indiana, after explosion in which two men were killed, and twenty-four men injured, Harrisburg Team.

January 7, 1917, fighting fire at United States Fuel Co.'s mine, Benton,

Benton Team.

January 21, 1917, ditto.

January 21, 1917, exploration work at West Side mine, Johnston City, Herrin Team.

January 22, 1917, fighting fire at Pond Creek mine, Herrin, Herrin Team. February 3, 4, 5, 6, 7, 8, 9, 1917, exploration work at Oliphant-Johnston Coal Co.'s mine, Bruceville, Indiana, Harrisburg Team.

February 10, 1917, opening seal at Pond Creek mine, Herrin, Herrin

Team.

March 4, 1917, ditto.

March 18, 1917, opening seal at Oliphant-Johnston Coal Co.'s mine, Bruceville, Indiana, Harrisburg Team.

March 27, 1917, fighting fire at mine No. 5, Taylor Coal Co., Freeman Spur, Herrin Team.

April 28, 1917, opening fire seal at No. 8 mine, Old Ben Mining Co., West Frankfort, Benton Team.

May 4, 1917, exploration work at abandoned mine No. 2, Equality, Harrisburg Team.

May 12, 1917, fighting fire at Weaver mine, Herrin, Herrin Team.

May 12, 1917, exploration work at No. 6 mine, Saline County Coal Co., Grayson, Harrisburg Team. (Eldorado Team and Jas. Towal, Superintendent, Benton Mine Rescue Station, also assisting.) Explosion killed four men.

May 22, 1917, fighting fire at mine B, Chicago & Carterville Coal Co.,

Herrin, Herrin Team.

May 26, 1917, opening fire seal at Weaver mine, Herrin, Herrin Team. May 27, 1917, fighting fire at mine A, Chicago & Carterville Coal Co., Herrin, Herrin Team.

June 2, 1917, exploration work at Weaver mine, Herrin, after explosion which killed nine men. (Jas. Towal, Superintendent Benton Mine Rescue

Station, also assisted.)

June 12, 1917, opening fire seal at Lovington mine, Lovington, Springfield Team.

June 22, 23, 1917, fighting fire at Paradise mine, Duquoin, Duquoin Team. During the period beginning January 1, 1915, and ending June 30, 1917, 1,176 certificates in first aid and helmet work have been issued,

383 of this number being women, Boy Scouts and school children of 16 years and over, who have taken the first aid course of twelve lessons.

### Equipment.

	Spring- field.	Benton.	LaSalle.	Herrin.	Harris- burg.	Duquoin
Breathing appratus (Fleuss type)—						
Proto	8	8	8	7	6	
Salvator	1 1	i	1	i	1	
Smoke helmet (Draeger type)—		1	1	1		1
Two hour	6	6	6			
One-half hour	4	4	ı 4			
xygen pump—	1	*				
Draeger type:	1	1	1	1	1	
Fleuss type	l î	ī	î			
dine cages	Ĩ	î	ī			
amps—	_	_				
Ackroyd & Best	2	2	2	2	2	
Wolf	5	5	6	2	2	
Davv	i	1	1	1	1	
Hepplewhite-Gray	ī	î	ī	1	1	0
Clanny	2		1	1	2	
Koehler	ī		ī	l	2	
Evan Thomas	ī	1	l i			
Muesler	l î	î	î			
Marsaut	l	Î				
Davis				1	1	
Ever Ready	21	14	10	15	8	
ulmotor	î	1	1	1	1	

### FIRST AID CONTESTS.

In order to encourage and maintain interest in first aid and helmet work, the Commission cooperated with the Perry County Fair Association in having a mine explosion demonstration and first aid contest at Pinckneyville, September 22, 1915, giving gold medals to the first aid winners. Seven first aid teams from over the State competed. The Benton Mine Rescue Station team gave a demonstration of rescue work by means of oxygen breathing apparatus in an imitation mine gallery constructed of timber and tar paper.

The Commission also cooperated with the United Mine Workers and Commercial Association of Springvalley in a demonstration given at Springvalley, September 9, 1916, fifteen first aid teams from over the State competing. The LaSalle Mine Rescue Station team gave a

demonstration of rescue work in the miniature mine.

In the recent reorganization of the administrative branch of the Illinois Government, effective July 1, 1917, the Mine Rescue Station Commission was abolished, the stations coming under the management of the Department of Mines and Minerals, and named "Division of Mine Rescue and First Aid."

### STATION STAFF.

Thomas Rogers, Superintendent, Mine Rescue Station, LaSalle. Thomas English, Superintendent, Mine Rescue Station, Springfield. James Towal, Superintendent, Mine Rescue Station, Benton. James Weir, Superintendent, Mine Rescue Station, Herrin. James Robertson, Superintendent, Mine Rescue Station, Duquoin. Alex. Skelton, Superintendent, Mine Rescue Station, Harrisburg.

The highest degree of efficiency possible in mine rescue methods can be attained only when each mining locality has its local teams of trained miners, familiar with the inside workings of the mines, and the Department of Mines and Minerals will make every possible effort, by cooperation with the parties at interest, the miners and operators, to bring about this ideal condition.

Although the indescriminate training of miners who have no access to apparatus has been abandoned as not feasible and conducive to efficient rescue work, the station superintendents are ready on call to train local helmet teams anywhere in the State, and have instructions to arrange with the coal companies to make regular and close inspection of privately owned apparatus. A first aid instructor will be sent anywhere in the State upon application from a class numbering at least twelve members.

# FINANCIAL REPORT—JANUARY 1, 1915, TO JULY 1, 1917.

2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Upkeep of Springfield, LaSalle and Benton stations \$ 4,202 19	
Upkeep of Herrin, Harrisburg and Duquoin sub-stations 2,601 91	
Express	
Freight and drayage	
Water	
Telegraph 26 64	
Telephone 589 05	,
Light	
Coal	
Laundry 146 47	
Car costs	
Oxygen	,
Draeger apparatus	,
Fleuss apparatus	
Lamps	
Red Cross supplies. 232 32	
Goggles	
Wages of station mine rescue teams	
Salaries of station staffs	
Expenses of station staffs	
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2 CI GIOIL CI COMMISSION CONTRACTOR CONTRACT	
Expenses of Commission	











